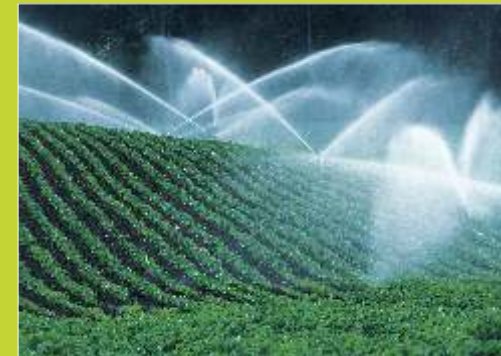




KDI

THREE PHASE
MONOBLOC PUMPS



KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company
Established 1888

KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company
Established 1888

Service Toll-Free No.

1800 103 4443

Registered Office & Global Headquarters : "Yamuna", Survey No. 98 / (3 to 7), Plot No. 3, Baner, Pune 411 045, State Maharashtra, India.
Tel.: +91 (20) 2721 4444 Fax: +91 (20) 67211060 Email: marketing@kbl.co.in Website: www.kirloskarpumps.com CIN No.: L29113PN1920PLC000670

KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company
Established 1888

TECHNICAL SPECIFICATION

Head Range	: Upto 76 metres
Discharge Range	: Upto 39 Ips
Power Ratings	: 1.5 to 22 kW (2 to 30 HP)
Voltage Range	: 350 to 440 Volts (Three Phase)
Insulation	: F Class
Protection	: IP 55

MATERIAL OF CONSTRUCTION

Impeller	: Cast Iron / Bronze / Stainless Steel
Delivery Casing	: Cast Iron
Motor Body	: Cast Iron
Pump Shaft	: Stainless Steel
Sealing	: Mechanical Seal

APPLICATIONS

- Air conditioning and refrigeration systems
- Cooling towers
- Clear water handling at high pressure in industries
- Irrigation in horticulture & agriculture
- Fire fighting systems

FEATURES

Flatter Efficiency Curve

Minimum variations in efficiency during entire operating range increases the utility of pumpset for variable conditions.

Wide Voltage Design

The motor is designed to withstand wide voltage fluctuations from 350 to 440 volts and reduces motor burning in case of low voltage.

Designed to Prevent Overloading

Lesser chances of motor burning as the motor does not get overloaded even if the pump is operated at a head lower than recommended, thus ensuring substantial cost savings due to low maintenance and breakdown.

Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

Dynamically Balanced Rotating Parts

Minimum vibrations protect components from damages during the operations, thus ensuring consistent performance as concentricity is maintained.

CED – Cathodic Electro Deposition

CED is the latest coating technology for corrosion resistance with uniform coating. It provides 5 times more protection over conventional painting, resulting in longer life. All major CI parts of Kirloskar pumps coming in contact with the water are CED coated.

Automatic Air Release

Automatically releases air when the pump starts which ensures swifter and smoother operations, thus eliminating the necessity of operating air release cock and ensures swifter and smoother operations.

Mechanical Seal

Superior quality of mechanical seal ensures zero leakage, lower friction loss, protects from wearing of shaft, thus resulting in easy maintenance and longer life.

PERFORMANCE CHART FOR 'KDI' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY																								
S. No.	Pump Model	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METRES																	
		kW	HP	SUC.	DEL.		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36		
							DISCHARGE IN LITRES PER SECOND																	
1	KDI-216+	1.5	2	65	50	415	-	11.0	10.0	8.8	7.1	4.0	-	-	-	-	-	-	-	-	-	-		
2	KDI-225++	1.5	2	50	40	415	-	5.3	5.1	4.9	4.7	4.5	4.2	3.9	3.5	3.1	-	-	-	-	-	-		
3	KDI-318++	2.2	3	65	50	415	-	13.4	12.6	11.7	10.7	9.2	7.5	-	-	-	-	-	-	-	-	-		
4	KDI-318++	2.2	3	80	65	415	-	13.4	12.6	11.7	10.7	9.2	7.5	-	-	-	-	-	-	-	-	-		
5	KDI-325++	2.2	3	65	50	415	-	9.2	8.8	8.4	7.9	7.4	7.0	6.4	5.8	4.9	-	-	-	-	-	-		
6	KDI-515	3.7	5	100	100	415	32.8	31.0	28.0	24.2	19.0	12.5	-	-	-	-	-	-	-	-	-	-		
7	KDI-520+	3.7	5	80	80	415	24.0	23.0	22.0	20.8	19.5	17.9	16.0	14.0	11.0	-	-	-	-	-	-	-		
8	KDI-527++	3.7	5	80	65	415	-	-	-	-	-	14.3	13.5	12.5	11.6	10.3	8.7	6.4	-	-	-	-		
9	KDI-822++	5.5	7.5	100	100	415	-	-	-	27.3	25.6	24.0	22.2	20.1	17.6	14.5	-	-	-	-	-	-		
10	KDI-830++	5.5	7.5	80	65	415	-	-	-	-	-	19.0	18.2	17.3	16.4	15.4	14.2	12.7	11.1	-	-	-		
11	KDI-1030+	7.5	10	100	100	415	-	-	-	32.0	31.0	29.8	28.5	27.0	25.0	23.5	21.0	18.0	-	-	-	-		
12	KDI-1331+	9.3	12.5	100	100	415	-	-	37.5	36.5	35.5	34.5	33.4	32.0	30.5	29.0	26.5	23.8	19.8	12.0	-	-		
							8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	40		
13	KDI-235+	1.5	2	50	40	415	-	4.1	4.1	4.1	3.7	3.5	3.4	3.2	3.0	2.5	2.2	1.8	1.3	0.5	-	-		
14	KDI-335++	2.2	3	50	40	415	-	-	5.7	4.9	4.8	4.7	4.6	4.4	4.2	4.0	3.8	3.6	3.2	2.7	2.0	-		
15	KDI-538+	3.7	5	65	50	415	-	-	-	-	-	-	8.5	8.4	8.3	8.1	7.8	7.6	7.1	6.5	5.8	-		
16	KDI-837+	5.5	7.5	65	65	415	-	-	-	-	-	-	-	-	12.6	12.5	12.2	11.8	11.1	10.3	9.0	-		
17	KDI-1040+	7.5	10	80	65	415	-	23.5	23.0	22.6	22.2	21.6	20.9	20.3	19.5	18.7	17.9	17.0	15.7	14.6	13.4	9.6		
18	KDI-1537+	11	15	100	100	415	-	39.0	38.5	38.0	37.2	36.5	35.3	34.5	33.0	31.6	30.0	28.0	25.0	22.0	17.5	-		

S. No.	Pump Model	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS																	
		kW	HP	SUC.	DEL.		14	16	18	20	22	24	26	28	30	32	34	36	40	44	48	52	56	60
							DISCHARGE IN LITRES PER SECOND																	
19	KDI-550++	3.7	5	50	40	415	-	-	-	-	-	-	-	-	-	-	4.1	3.7	3.3	2.7	2.0	-	-	
20	KDI-844++	5.5	7.5	65	65	415	-	-	-	-	-	-	-	10.3	9.9	9.5	9.0	8.4	7.1	4.7	-	-	-	
21	KDI-852++	5.5	7.5	65	50	415	-	-	-	-	-	-	-	-	-	8.6	8.3	8.1	7.5	6.8	5.9	4.5	-	
22	KDI-1050+	7.5	10	65	65	415	-	-	-	-	-	-	-	12.5	12.2	12.0	11.7	11.4	10.7	9.6	8.1	6.0	-	
23	KDI-1348+	9.3	12.5	80	65	415	-	-	-	19.5	19.2	19.0	18.5	18.2	17.5	17.3	16.5	15.8	14.3	11.9	6.0	-	-	
24	KDI-1555+	11	15	80	65	415	-	-	-	-	19.9	19.8	19.6	19.5	19.4	19.2	18.8	18.5	17.4	16.0	14.5	12.2	-	
25	KDI-2050+	15	20	100	80	415	35.0	34.2	33.8	33.0	32.2	30.9	30.4	29.8	29.5	28.8	28.0	27.0	25.0	22.5	19.4	13.0	-	
							18	22	26	28	30	32	34	36	40	44	48	52	56	60	64	68	72	
26	KDI-1065+	7.5	10	65	50	415	-	-	-	-	-	-	-	-	7.8	7.4	6.9	6.4	5.8	5.1	4.3	3.0	-	
27	KDI-1360+	9.3	12.5	65	50	415	12.8	12.7	12.6	12.5	12.3	12.2	12	11.7	11.3	10.7	10	9	8.25	7	-	-	-	
28	KDI-1570+	11	15	65	50	415	-	-	-	13.4	13.2	13.0	12.8	12.7	12.5	11.7	11.5	10.7	9.7	9.0	8.0	6.5	-	
29	KDI-1575+	11	15	65	50	415	-	-	-	-	-	-	-	-	-	-	-	8.1	7.7	7.4	6.9	6.4	5.8	
30	KDI-2560+	18.5	25	100	80	415	-	-	-	-	-	-	-	-	-	-	26	23.5	21	17	7	-	-	
31	KDI-3068+	22	30	100	80	415	-	-	-	-	-	-	-	-	-	-	28.0	26.5	24.5	21.5	17.5	10.0	-	



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KCIL



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99.9%
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ENQUIRE BEFORE BUYING.**

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KIRLOSKAR PUMPS

TECHNICAL SPECIFICATION

Head Range	- Upto 323 metres
Discharge Range	- Upto 110 m³/h
Power Ratings	- 0.37 to 45 kW (0.5 to 60 HP)
Voltage Range	- 370 to 440 Volts (Three Phase)
Protection	- IP55
Insulation	- F Class
pH Value	- 4 to 10
Altitude	- Up to 1000 metres
Liquid Temperature Range	- -20° C to 120°C
Motors	- All motors are designed under IE2 specification.
Maximum Operating Pressure	- 16 bar (KCIL & KSIL-1 to 5 Series) 25 bar (KSIL & KCIL-10 to 90 Series)

APPLICATIONS

- Building Industry - Booster, Fire fighting, Hydro pneumatic systems, Heating, Ventilation and Air conditioning systems.
- Water Treatment - Reverse osmosis systems, softening, Ion exchange, demineralizing systems, distillation systems
- Irrigation - Field irrigation (flooding), sprinkler irrigation, drip-feed irrigation.
- Dairy, Food Processing and Beverage Industries - Supply of clean water.
- Small Capacity Power Plants - Boiler feed and condensate transfer.

FEATURES

Superior Pump Hydraulics

Superior pump hydraulics due to advanced manufacturing processes coupled with IE2 motor facilitate higher efficiency at par with international standard.

Cartridge Type Mechanical Seal

Superior quality cartridge type mechanical seal with high quality graphite and hard alloy ensures better heat resistance capacity, zero leakage and lower friction loss. This protects the shaft from wear and tear thus ensuring easy maintenance without opening the pump for a longer life.

Splined Shaft

Splined shaft made from cold extrusion technology with high surface strength facilitates better life and good axiality.

Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

Dynamically Balanced Rotating Parts

Minimum vibration protect components from damage during the operation, thus ensuring consistent performance as concentricity is maintained.

Easy Maintainable Designs

Easy maintainable design and better interchangeability of components.

Suitable for Horizontal Applications

The motor comes with ball bearings which makes it suitable for horizontal installation for water transfer at high heads in residential complex.

High Head Applications

The pump has been designed to deliver large volumes of water for high head applications, helping customers to achieve high turnaround time and productivity.

MATERIAL OF CONSTRUCTION

		KCIL	KSIL
Base Plate	-	Cast Iron	Cast Iron
Drainage Plug Assembly	-	Stainless Steel	Stainless Steel
Primary Diffuser	-	Stainless Steel	Stainless Steel
Diffuser with Bearing	-	Stainless Steel	Stainless Steel
Medium Diffuser	-	Stainless Steel	Stainless Steel
Impeller	-	Stainless Steel	Stainless Steel
Final Diffuser	-	Stainless Steel	Stainless Steel
Motor Base	-	Cast Iron	Cast Iron
Vent Plug Assembly	-	Stainless Steel	Stainless Steel
Pump Shaft	-	Stainless Steel	Stainless Steel
Pump Casing (Suc & Del)	-	Cast Iron	Stainless Steel

KIRLOSKAR PUMPS

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 1 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr								
		kW	HP	SUC.	DEL.		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
							TOTAL HEAD IN METRES								
1	KSIL/KCIL1-2	0.37	0.5	32	32	2	12	12	12	12	12	11	11	10	10
2	KSIL/KCIL1-3	0.37	0.5	32	32	3	18	18	18	18	17	17	16	15	14
3	KSIL/KCIL1-4	0.37	0.5	32	32	4	24	24	24	23	22	22	21	19	18
4	KSIL/KCIL1-5	0.37	0.5	32	32	5	30	30	30	29	28	27	26	24	22
5	KSIL/KCIL1-6	0.37	0.5	32	32	6	36	36	35	35	34	32	30	28	25
6	KSIL/KCIL1-7	0.37	0.5	32	32	7	42	42	41	41	39	37	35	32	30
7	KSIL/KCIL1-8	0.55	0.75	32	32	8	48	48	47	46	45	43	40	37	34
8	KSIL/KCIL1-9	0.55	0.75	32	32	9	54	54	53	52	50	48	45	41	37
9	KSIL/KCIL1-10	0.55	0.75	32	32	10	60	59	58	57	55	53	50	46	41
10	KSIL/KCIL1-11	0.55	0.75	32	32	11	65	65	64	62	61	58	54	50	45
11	KSIL/KCIL1-12	0.75	1.0	32	32	12	73	72	71	69	67	64	61	55	50
12	KSIL/KCIL1-13	0.75	1.0	32	32	13	78	78	77	75	73	69	65	60	54
13	KSIL/KCIL1-15	0.75	1.0	32	32	15	90	90	88	86	83	79	74	68	61
14	KSIL/KCIL1-17	1.1	1.5	32	32	17	103	102	101	99	95	91	85	79	70
15	KSIL/KCIL1-19	1.1	1.5	32	32	19	115	114	112	109	106	101	94	87	78
16	KSIL/KCIL1-21	1.1	1.5	32	32	21	126	125	123	120	116	110	103	95	85
17	KSIL/KCIL1-23	1.1	1.5	32	32	23	137	136	134	131	126	120	112	103	92
18	KSIL/KCIL1-25	1.5	2.0	32	32	25	153	152	150	147	142	136	128	118	106
19	KSIL/KCIL1-27	1.5	2.0	32	32	27	165	164	162	158	153	146	137	127	114
20	KSIL/KCIL1-30	1.5	2.0	32	32	30	182	181	178	175	169	162	152	140	126
21	KSIL/KCIL1-33	2.2	3.0	32	32	33	203	202	199	195	189	181	170	157	142
22	KSIL/KCIL1-36	2.2	3.0	32	32	36	221	220	217	212	206	197	185	171	154

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 2 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr							
		kW	HP	SUC.	DEL.		1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.5
							TOTAL HEAD IN METRES							
1	KSIL/KCIL2-2	0.37	0.50	32	32	2	18	17	16	15	13	12	10	8
2	KSIL/KCIL2-3	0.37	0.50	32	32	3	27	26	24	22	20	18	15	12
3	KSIL/KCIL2-4	0.55	0.75	32	32	4	36	35	33	30	26	24	17	16
4	KSIL/KCIL2-5	0.55	0.75	32	32	5	45	43	40	37	33	30	24	20
5	KSIL/KCIL2-6	0.75	1.00	32	32	6	53	52	50	45	40	36	30	24
6	KSIL/KCIL2-7	0.75	1.00	32	32	7	63	61	57	52	47	41	35	28
7	KSIL/KCIL2-8	1.10	1.50	32	32	8	71	69	65	59	54	47	40	33
8	KSIL/KCIL2-9	1.10	1.50	32	32	9	80	78	73	67	61	54	45	37
9	KSIL/KCIL2-10	1.10	1.50	32	32	10	89	86	81	74	67	59	49	40
10	KSIL/KCIL2-11	1.10	1.50	32	32	11	98	95	89	82	73	64	54	44
11	KSIL/KCIL2-12	1.50	2.00	32	32	12	107	103	97	90	81	71	59	47
12	KSIL/KCIL2-13	1.50	2.00	32	32	13	116	114	106	98	89	78	65	52
13	KSIL/KCIL2-14	1.50	2.00	32	32	14	125	122	118	105	94	84	69	57
14	KSIL/KCIL2-15	1.50	2.00	32	32	15	134	130	123	112	100	90	73	60
15	KSIL/KCIL2-16	2.20	3.00	32	32	16	143	139	131	120	107	96	79	66
16	KSIL/KCIL2-17	2.20	3.00	32	32	17	152	148	139	128	114	102	85	70
17	KSIL/KCIL2-18	2.20	3.00	32	32	18	161	157	148	136	121	108	91	76
18	KSIL/KCIL2-19	2.20	3.00	32	32	19	170	165	156	143	127	113	95	81
19	KSIL/KCIL2-20	2.20	3.00	32	32	20	179	174	164	150	134	119	100	85
20	KSIL/KCIL2-21	2.20	3.00	32	32	21	188	183	172	157	141	124	105	88
21	KSIL/KCIL2-22	2.20	3.00	32	32	22	197	192	180	165	148	130	110	90
22	KSIL/KCIL2-23	3.00	4.00	32	32	23	204	201	188	173	155	137	117	97
23	KSIL/KCIL2-24	3.00	4.00	32	32	24	214	210	197	181	163	144	120	105
24	KSIL/KCIL2-25	3.00	4.00	32	32	25	223	219	205	189	168	151	125	107
25	KSIL/KCIL2-26	3.00	4.00	32	32	26	232	228	214	198	178	158	130	110

KIRLOSKAR PUMPS

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 3 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY															
S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr								
		kW	HP	SUC.	DEL.		1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
							TOTAL HEAD IN METRES								
1	KSIL/KCIL3-2	0.37	0.5	32	32	2	13	12	12	11	11	11	10	8	8
2	KSIL/KCIL3-3	0.37	0.5	32	32	3	19	19	18	17	16	16	15	14	12
3	KSIL/KCIL3-4	0.37	0.5	32	32	4	25	24	23	22	20	19	18	17	14
4	KSIL/KCIL3-5	0.37	0.5	32	32	5	31	31	29	27	25	24	22	20	17
5	KSIL/KCIL3-6	0.55	0.75	32	32	6	37	36	35	33	30	29	28	24	21
6	KSIL/KCIL3-7	0.55	0.75	32	32	7	43	42	40	37	35	33	31	28	24
7	KSIL/KCIL3-8	0.75	1.0	32	32	8	51	48	47	44	41	39	37	33	28
8	KSIL/KCIL3-9	0.75	1.0	32	32	9	56	54	51	48	45	43	40	36	30
9	KSIL/KCIL3-10	0.75	1.0	32	32	10	62	60	57	54	50	48	45	40	33
10	KSIL/KCIL3-11	1.1	1.5	32	32	11	69	66	63	60	56	53	50	44	38
11	KSIL/KCIL3-12	1.1	1.5	32	32	12	75	72	69	65	61	58	55	48	41
12	KSIL/KCIL3-13	1.1	1.5	32	32	13	80	78	74	70	65	62	58	51	44
13	KSIL/KCIL3-15	1.1	1.5	32	32	15	92	89	85	80	73	70	66	58	49
14	KSIL/KCIL3-17	1.5	2.0	32	32	17	107	104	100	94	87	83	79	70	59
15	KSIL/KCIL3-19	1.5	2.0	32	32	19	119	116	111	104	97	93	88	77	65
16	KSIL/KCIL3-21	2.2	3.0	32	32	21	133	129	124	117	109	104	99	88	75
17	KSIL/KCIL3-23	2.2	3.0	32	32	23	146	141	135	128	119	114	108	95	81
18	KSIL/KCIL3-25	2.2	3.0	32	32	25	158	153	146	138	128	123	117	102	87
19	KSIL/KCIL3-27	2.2	3.0	32	32	27	170	164	157	148	138	132	125	110	93
20	KSIL/KCIL3-29	2.2	3.0	32	32	29	182	176	168	159	147	140	133	118	100
21	KSIL/KCIL3-31	3	4.0	32	32	31	197	191	183	173	161	153	146	128	110
22	KSIL/KCIL3-33	3	4.0	32	32	33	210	203	194	183	170	162	152	137	116
23	KSIL/KCIL3-36	3	4.0	32	32	36	228	221	211	200	185	177	168	149	126

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 4 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY														
S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr							
		kW	HP	SUC.	DEL.		1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
							TOTAL HEAD IN METRES							
1	KSIL/KCIL4-2	0.37	0.50	32	32	2	19	18	17	15	13	10	8	6
2	KSIL/KCIL4-3	0.55	0.75	32	32	3	28	27	26	24	20	18	14	10
3	KSIL/KCIL4-4	0.75	1.00	32	32	4	38	36	34	32	27	24	18	13
4	KSIL/KCIL4-5	1.10	1.50	32	32	5	47	45	43	40	34	31	23	17
5	KSIL/KCIL4-6	1.10	1.50	32	32	6	56	54	52	48	41	37	28	20
6	KSIL/KCIL4-7	1.50	2.00	32	32	7	66	63	61	56	48	43	34	24
7	KSIL/KCIL4-8	1.50	2.00	32	32	8	74	72	70	64	55	50	38	27
8	KSIL/KCIL4-9	2.20	3.00	32	32	9	86	81	78	72	63	56	44	32
9	KSIL/KCIL4-10	2.20	3.00	32	32	10	96	90	87	81	71	62	50	34
10	KSIL/KCIL4-11	2.20	3.00	32	32	11	105	99	95	88	78	68	53	39
11	KSIL/KCIL4-12	2.20	3.00	32	32	12	114	108	104	95	85	75	57	41
12	KSIL/KCIL4-13	3.00	4.00	32	32	13	123	117	113	103	93	82	63	45
13	KSIL/KCIL4-14	3.00	4.00	32	32	14	136	126	122	112	101	89	69	48
14	KSIL/KCIL4-15	4.00	5.50	32	32	15	142	135	131	120	108	95	73	52
15	KSIL/KCIL4-16	4.00	5.50	32	32	16	152	144	140	129	115	101	78	55
16	KSIL/KCIL4-17	4.00	5.50	32	32	17	163	153	149	137	122	108	83	62
17	KSIL/KCIL4-18	4.00	5.50	32	32	18	175	162	158	145	129	115	89	65
18	KSIL/KCIL4-19	4.00	5.50	32	32	19	183	171	168	153	137	122	95	67
19	KSIL/KCIL4-20	4.00	5.50	32	32	20	192	180	176	161	144	127	99	72
20	KSIL/KCIL4-21	4.00	5.50	32	32	21	203	190	184	169	152	132	103	75
21	KSIL/KCIL4-22	4.00	5.50	32	32	22	211	200	192	178	160	138	108	79

KIRLOSKAR PUMPS

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 5 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr						
		kW	HP	SUC.	DEL.		1	2	3	4	5	6	7
							TOTAL HEAD IN METRES						
1	KSIL/KCIL5-2	0.37	0.5	32	32	2	13	12	12	10	9	7	6
2	KSIL/KCIL5-3	0.55	0.75	32	32	3	19	19	18	16	15	12	10
3	KSIL/KCIL5-4	0.55	0.75	32	32	4	26	25	24	22	19	16	14
4	KSIL/KCIL5-5	0.75	1	32	32	5	33	32	30	28	24	22	18
5	KSIL/KCIL5-6	1.1	1.5	32	32	6	40	38	37	34	31	27	23
6	KSIL/KCIL5-7	1.1	1.5	32	32	7	46	45	42	40	36	32	27
7	KSIL/KCIL5-8	1.1	1.5	32	32	8	53	51	48	45	41	36	31
8	KSIL/KCIL5-9	1.5	2	32	32	9	60	59	56	53	48	44	37
9	KSIL/KCIL5-10	1.5	2	32	32	10	67	65	62	59	54	48	41
10	KSIL/KCIL5-11	2.2	3	32	32	11	74	73	70	66	61	54	47
11	KSIL/KCIL5-12	2.2	3	32	32	12	81	79	76	72	66	59	51
12	KSIL/KCIL5-13	2.2	3	32	32	13	88	85	82	78	71	64	55
13	KSIL/KCIL5-14	2.2	3	32	32	14	95	92	89	83	77	69	60
14	KSIL/KCIL5-15	2.2	3	32	32	15	101	99	95	89	82	74	63
15	KSIL/KCIL5-16	2.2	3	32	32	16	108	105	101	95	87	78	68
16	KSIL/KCIL5-18	3	4	32	32	18	122	119	115	109	100	90	78
17	KSIL/KCIL5-20	3	4	32	32	20	135	132	127	120	111	100	87
18	KSIL/KCIL5-22	4	5.5	32	32	22	150	147	142	134	124	112	97
19	KSIL/KCIL5-24	4	5.5	32	32	24	163	160	154	146	135	122	106
20	KSIL/KCIL5-26	4	5.5	32	32	26	176	173	166	157	146	132	115
21	KSIL/KCIL5-29	4	5.5	32	32	29	198	194	188	178	165	149	131

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 10 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr					
		kW	HP	SUC.	DEL.		2	4	6	8	10	12
							TOTAL HEAD IN METRES					
1	KSIL/KCIL10-1	0.37	0.5	42	42	1	10	10	9	8	7	5
2	KSIL/KCIL10-2	0.75	1	42	42	2	20	20	19	18	15	12
3	KSIL/KCIL10-3	1.1	1.5	42	42	3	30	30	29	26	23	18
4	KSIL/KCIL10-4	1.5	2	42	42	4	40	40	40	36	32	26
5	KSIL/KCIL10-5	2.2	3	42	42	5	51	51	50	46	40	33
6	KSIL/KCIL10-6	2.2	3	42	42	6	61	61	59	55	48	39
7	KSIL/KCIL10-7	3.0	4	42	42	7	72	72	70	65	56	46
8	KSIL/KCIL10-8	3.0	4	42	42	8	82	82	80	74	64	53
9	KSIL/KCIL10-9	3.0	4	42	42	9	92	92	89	82	70	59
10	KSIL/KCIL10-10	4.0	5.5	42	42	10	102	102	100	93	80	66
11	KSIL/KCIL10-12	4.0	5.5	42	42	12	122	122	119	110	95	79
12	KSIL/KCIL10-14	5.5	7.5	42	42	14	143	142	140	130	113	94
13	KSIL/KCIL10-16	5.5	7.5	42	42	16	163	163	159	148	128	106
14	KSIL/KCIL10-18	7.5	10	42	42	18	185	184	182	169	147	123
15	KSIL/KCIL10-20	7.5	10	42	42	20	206	204	201	188	164	136
16	KSIL/KCIL10-22	7.5	10	42	42	22	226	226	221	206	181	147

KIRLOSKAR PUMPS

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 15 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr						
		kW	HP	SUC.	DEL.		3	6	9	12	15	18	21
							TOTAL HEAD IN METRES						
1	KSIL/KCIL15-1	1.1	1.5	65	65	1	15	13	13	12	11	10	9
2	KSIL/KCIL15-2	2.2	3	65	65	2	28	27	26	25	23	21	18
3	KSIL/KCIL15-3	3	4	65	65	3	42	41	40	38	35	32	28
4	KSIL/KCIL15-4	4	5.5	65	65	4	58	55	55	51	47	43	38
5	KSIL/KCIL15-5	4	5.5	65	65	5	70	68	66	64	58	53	48
6	KSIL/KCIL15-6	5.5	7.5	65	65	6	83	82	80	77	71	64	58
7	KSIL/KCIL15-7	5.5	7.5	65	65	7	98	96	94	89	83	75	65
8	KSIL/KCIL15-8	7.5	10	65	65	8	112	110	108	103	96	86	75
9	KSIL/KCIL15-9	7.5	10	65	65	9	125	123	120	115	108	97	84
10	KSIL/KCIL15-10	11	15	65	65	10	140	138	136	129	120	109	95
11	KSIL/KCIL15-12	11	15	65	65	12	168	165	162	155	142	130	114
12	KSIL/KCIL15-14	11	15	65	65	14	194	192	188	180	166	151	130
13	KSIL/KCIL15-17	15	20	65	65	17	237	234	230	219	205	185	160

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 20 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr						
		kW	HP	SUC.	DEL.		4	8	12	16	20	24	28
							TOTAL HEAD IN METRES						
1	KSIL/KCIL20-1	1.1	1.5	65	65	1	13	13	13	12	11	9	7
2	KSIL/KCIL20-2	2.2	3	65	65	2	28	28	27	25	23	19	15
3	KSIL/KCIL20-3	4.0	5	65	65	3	43	43	42	39	36	30	23
4	KSIL/KCIL20-4	5.5	7.5	65	65	4	58	57	56	53	48	41	32
5	KSIL/KCIL20-5	5.5	7.5	65	65	5	73	72	70	66	60	52	40
6	KSIL/KCIL20-6	7.5	10	65	65	6	87	84	83	80	72	62	49
7	KSIL/KCIL20-7	7.5	10	65	65	7	102	100	97	93	84	72	57
8	KSIL/KCIL20-8	11.0	15	65	65	8	117	116	113	107	96	85	67
9	KSIL/KCIL20-10	15.0	20	65	65	10	146	144	140	132	120	105	83
10	KSIL/KCIL20-12	15.0	20	65	65	12	175	174	169	161	144	127	101
11	KSIL/KCIL20-14	15.0	20	65	65	14	204	202	197	187	168	147	117
12	KSIL/KCIL20-17	18.5	25	65	65	17	249	247	241	229	210	181	144

KIRLOSKAR PUMPS

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 32 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr					
		kW	HP	SUC.	DEL.		15	20	25	32	35	40
							TOTAL HEAD IN METRES					
1	KSIL/KCIL32-1-1	1.5	2.0	74	74	1	15	14	13	10	8	5
2	KSIL/KCIL32-1	2.2	3.0	74	74	1	18	17	16	13	12	9
3	KSIL/KCIL32-2-2	3.0	4.0	74	74	2	31	30	27	21	18	12
4	KSIL/KCIL32-2	4.0	5.5	74	74	2	37	36	32	27	25	20
5	KSIL/KCIL32-3-2	5.5	7.5	74	74	3	50	47	44	37	31	23
6	KSIL/KCIL32-3	5.5	7.5	74	74	3	56	53	49	44	38	30
7	KSIL/KCIL32-4-2	7.5	10.0	74	74	4	69	65	60	51	44	32
8	KSIL/KCIL32-4	7.5	10.0	74	74	4	75	71	66	59	51	40
9	KSIL/KCIL32-5-2	11.0	15.0	74	74	5	89	85	78	65	59	45
10	KSIL/KCIL32-5	11.0	15.0	74	74	5	95	90	84	71	65	52
11	KSIL/KCIL32-6-2	11.0	15.0	74	74	6	107	102	95	80	71	55
12	KSIL/KCIL32-6	11.0	15.0	74	74	6	113	108	100	86	78	62
13	KSIL/KCIL32-7-2	15.0	20.0	74	74	7	127	121	112	95	85	67
14	KSIL/KCIL32-7	15.0	20.0	74	74	7	133	126	118	101	92	74
15	KSIL/KCIL32-8-2	15.0	20.0	74	74	8	145	138	128	108	98	77
16	KSIL/KCIL32-8	15.0	20.0	74	74	8	151	144	134	115	104	83
17	KSIL/KCIL32-9-2	18.5	25.0	74	74	9	165	158	147	124	112	89
18	KSIL/KCIL32-9	18.5	25.0	74	74	9	171	163	152	131	119	96
19	KSIL/KCIL32-10-2	18.5	25.0	74	74	10	184	175	163	138	125	99
20	KSIL/KCIL32-10	18.5	25.0	74	74	10	190	181	169	145	133	106
21	KSIL/KCIL32-11-2	22.0	30.0	74	74	11	203	194	181	154	140	112
22	KSIL/KCIL32-11	22.0	30.0	74	74	11	209	200	187	161	147	118
23	KSIL/KCIL32-12-2	22.0	30.0	74	74	12	222	212	197	168	152	121
24	KSIL/KCIL32-12	22.0	30.0	74	74	12	227	217	203	176	160	128
25	KSIL/KCIL32-13-2	30.0	40.0	74	74	13	244	233	218	187	169	136
26	KSIL/KCIL32-13	30.0	40.0	74	74	13	250	239	224	193	177	145
27	KSIL/KCIL32-14-2	30.0	40.0	74	74	14	263	251	234	201	183	146
28	KSIL/KCIL32-14	30.0	40.0	74	74	14	269	258	241	207	188	156

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 45 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr						
		kW	HP	SUC.	DEL.		25	30	35	40	45	50	55
							TOTAL HEAD IN METRES						
1	KSIL/KCIL45-1-1	3.0	4.0	80	80	1	20	20	18	17	15	13	11
2	KSIL/KCIL45-1	4.0	5.5	80	80	1	24	23	22	21	19	18	15
3	KSIL/KCIL45-2-2	5.5	7.5	80	80	2	41	39	37	34	31	27	22
4	KSIL/KCIL45-2	7.5	10.0	80	80	2	49	47	45	42	39	35	31
5	KSIL/KCIL45-3-2	11.0	15.0	80	80	3	66	64	61	57	52	46	40
6	KSIL/KCIL45-3	11.0	15.0	80	80	3	74	71	68	64	60	54	48
7	KSIL/KCIL45-4-2	15.0	20.0	80	80	4	91	88	84	79	72	65	56
8	KSIL/KCIL45-4	15.0	20.0	80	80	4	99	95	91	86	80	73	64
9	KSIL/KCIL45-5-2	18.5	25.0	80	80	5	118	113	107	101	93	84	73
10	KSIL/KCIL45-5	18.5	25.0	80	80	5	122	120	115	108	100	92	81
11	KSIL/KCIL45-6-2	22.0	30.0	80	80	6	142	137	131	122	113	103	90
12	KSIL/KCIL45-6	22.0	30.0	80	80	6	149	144	138	130	121	111	98
13	KSIL/KCIL45-7-2	30.0	40.0	80	80	7	168	163	156	147	135	123	109
14	KSIL/KCIL45-7	30.0	40.0	80	80	7	176	171	163	155	144	132	116
15	KSIL/KCIL45-8-2	30.0	40.0	80	80	8	193	187	179	168	155	142	126
16	KSIL/KCIL45-8	30.0	40.0	80	80	8	200	194	187	176	164	149	134
17	KSIL/KCIL45-9-2	30.0	40.0	80	80	9	217	211	202	189	174	159	142
18	KSIL/KCIL45-9	30.0	40.0	80	80	9	226	219	210	199	185	170	151
19	KSIL/KCIL45-10-2	37.0	50.0	80	80	10	242	236	225	212	196	179	159
20	KSIL/KCIL45-10	37.0	50.0	80	80	10	251	243	233	220	205	187	166
21	KSIL/KCIL45-11-2	45.0	60.0	80	80	11	273	264	253	238	222	201	179
22	KSIL/KCIL45-11	45.0	60.0	80	80	11	281	272	261	246	230	209	187
23	KSIL/KCIL45-12-2	45.0	60.0	80	80	12	298	289	276	261	242	220	195
24	KSIL/KCIL45-12	45.0	60.0	80	80	12	306	296	284	268	251	229	204
25	KSIL/KCIL45-13-2	45.0	60.0	80	80	13	323	313	300	283	263	239	212

KIRLOSKAR PUMPS

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 64 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY												
S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr					
		kW	HP	SUC.	DEL.		30	40	50	64	70	80
							TOTAL HEAD IN METRES					
1	KSIL/KCIL64-1-1	4.0	5.5	100	100	1	20	19	18	14	12	9
2	KSIL/KCIL64-1	5.5	7.5	100	100	1	27	26	24	21	20	17
3	KSIL/KCIL64-2-2	7.5	10.0	100	100	2	40	38	36	29	26	19
4	KSIL/KCIL64-2-1	11.0	15.0	100	100	2	48	46	43	37	35	29
5	KSIL/KCIL64-2	11.0	15.0	100	100	2	55	53	50	44	42	36
6	KSIL/KCIL64-3-2	15.0	20.0	100	100	3	68	66	60	53	49	40
7	KSIL/KCIL64-3-1	15.0	20.0	100	100	3	76	72	68	60	56	47
8	KSIL/KCIL64-3	18.5	25.0	100	100	3	84	80	76	68	64	56
9	KSIL/KCIL64-4-2	18.5	25.0	100	100	4	96	93	87	76	68	59
10	KSIL/KCIL64-4-1	22.0	30.0	100	100	4	104	100	95	84	79	68
11	KSIL/KCIL64-4	22.0	30.0	100	100	4	112	107	102	91	86	75
12	KSIL/KCIL64-5-2	30.0	40.0	100	100	5	126	122	115	101	94	81
13	KSIL/KCIL64-5-1	30.0	40.0	100	100	5	134	129	122	109	102	88
14	KSIL/KCIL64-5	30.0	40.0	100	100	5	141	136	129	116	109	96
15	KSIL/KCIL64-6-2	30.0	40.0	100	100	6	154	148	140	124	115	99
16	KSIL/KCIL64-6-1	37.0	50.0	100	100	6	162	156	148	132	124	108
17	KSIL/KCIL64-6	37.0	50.0	100	100	6	170	163	155	139	131	116
18	KSIL/KCIL64-7-2	37.0	50.0	100	100	7	182	176	166	147	138	119
19	KSIL/KCIL64-7-1	37.0	50.0	100	100	7	190	183	173	155	145	126
20	KSIL/KCIL64-7	45.0	60.0	100	100	7	202	194	184	165	155	136
21	KSIL/KCIL64-8-2	45.0	60.0	100	100	8	214	207	196	174	163	140
22	KSIL/KCIL64-8-1	45.0	60.0	100	100	8	222	214	203	181	170	148

PERFORMANCE CHART FOR KCIL / KSIL PUMPSETS - 90 SERIES, AT RATED VOLTAGE OF 415 VOLTS, 50 HZ FREQUENCY, THREE PHASE A.C. POWER SUPPLY													
S. No.	Pump Model	Power Rating		Pipe Size (mm)		No of Stages	DISCHARGE IN m³/hr						
		kW	HP	SUC.	DEL.		50	60	70	80	90	100	110
							TOTAL HEAD IN METRES						
1	KSIL/KCIL90-1-1	5.5	7.5	100	100	1	21	20	18	16	14	11	7
2	KSIL/KCIL90-1	7.5	10.0	100	100	1	26	25	24	22	20	18	14
3	KSIL/KCIL90-2-2	11.0	15.0	100	100	2	43	41	38	35	30	24	17
4	KSIL/KCIL90-2	15.0	20.0	100	100	2	55	52	49	46	43	38	32
5	KSIL/KCIL90-3-2	18.5	25.0	100	100	3	72	68	64	58	52	44	35
6	KSIL/KCIL90-3	22.0	30.0	100	100	3	85	80	76	71	65	59	51
7	KSIL/KCIL90-4-2	30.0	40.0	100	100	4	102	97	91	85	76	66	54
8	KSIL/KCIL90-4	30.0	40.0	100	100	4	114	109	103	96	89	80	69.5
9	KSIL/KCIL90-5-2	37.0	50.0	100	100	5	131	125	118	109	99	87	72
10	KSIL/KCIL90-5	37.0	50.0	100	100	5	142	136	129	121	111	101	87
11	KSIL/KCIL90-6-2	45.0	60.0	100	100	6	161	154	145	135	123	108	92
12	KSIL/KCIL90-6	45.0	60.0	100	100	6	175	166	156	146	135	123	108

Note:

Performance under standard test conditions and may vary on site conditions.
Performance applicable to liquid of specific gravity 1 and viscosity as of water.

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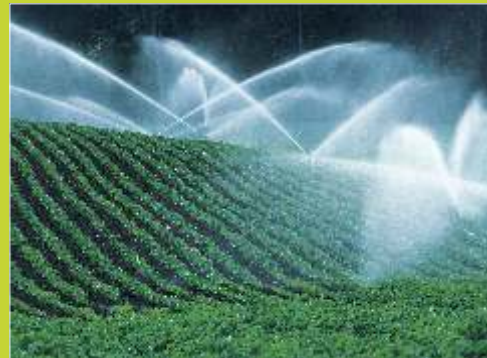
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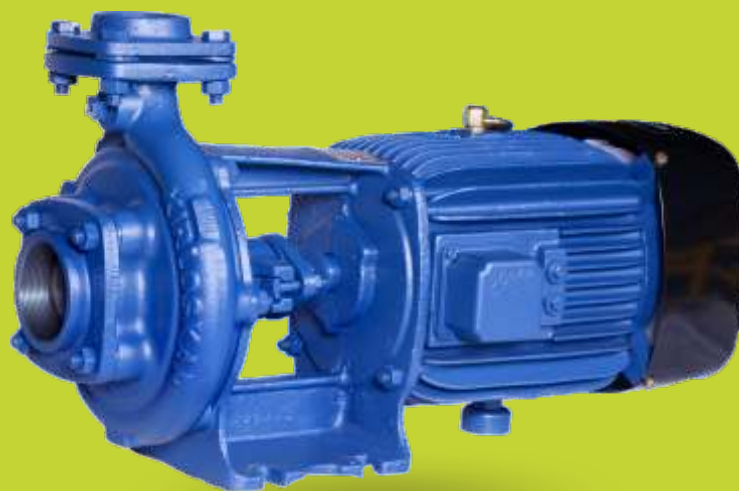
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and  **LOGOS ON PACKING**

KIRLOSKAR PUMPS

TECHNICAL SPECIFICATION

Head Range	- Up to 80 Metres
Discharge Range	- Up to 49 LPS
Power Rating	- 0.37 to 22 kW (0.5 to 30 HP)
Voltage Range	- 300 to 440 Volts (Three Phase)
Insulation	- B Class (Up to 7.5 HP) / F Class (above 7.5 HP)
Protection	- IP44 / IP55

MATERIAL OF CONSTRUCTION

	GMC	KDS
Impeller	- Cast Iron / Noryl	Cast Iron
Delivery Casing	- Cast Iron	Cast Iron
Motor Body	- Cast Iron	Cast Iron
Pump Shaft	- Carbon Steel	Carbon Steel
Sealing	- Mechanical Seal	Gland Packed

APPLICATIONS

- Air conditioning and refrigeration systems
- Cooling towers
- Clear water handling at high pressure in industries
- Irrigation in horticulture & agriculture
- Fire fighting systems

FEATURES

Flatter Efficiency Curve

Minimum variations in efficiency during entire operating range increases the utility of pumpset for variable conditions.

Wide Voltage Design

The motor is designed to withstand wide voltage variation from 300 to 440 volts and reduces motor burning in case of low/high voltage.

Designed to Prevent Overloading

Lesser chances of motor burning as it does not get overloaded even if the pump is operated at a head lower than recommended, thus ensuring substantial cost saving due to low maintenance and breakdown.

Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

Dynamically Balanced Rotating Parts

Minimum vibration protects the components from damage during the operation, thus ensuring consistent performance as concentricity is maintained.

CED – Cathodic Electro Deposition

CED is the latest coating technology for corrosion resistance with uniform coating. It provides 5 times more protection over conventional painting, resulting in longer life. All major CI parts of Kirloskar pumps coming in contact with the water are CED coated.

Automatic Air Release

Automatically releases air when the pump starts ensuring swifter and smoother operations, thus eliminating the necessity of operating air release cock.

High Efficiency and Energy Saving Design

Innovative design manufactured at state-of-the-art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

KIRLOSKAR PUMPS

PERFORMANCE CHART FOR 'KDS+/KDS++/GMC' SERIES, 2 POLE, MONOBLOC PUMP, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METRES																							
							6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44				
		kW	HP	SUC.	DEL.		DISCHARGE IN LITRES PER SECOND																							
1	KDS - 0510+	0.37	0.5	50	40	415	3.4	2.6	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2	GMC - 112	0.75	1.0	50	50	415	6.5	5.4	4.0	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3	GMC - 116	0.75	1.0	50	40	415	5.4	5.0	4.6	4.2	3.6	3.0	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-				
4	GMC - 123	0.75	1.0	32	25	415	-	-	4.1	3.6	3.2	2.7	2.2	1.7	0.9	-	-	-	-	-	-	-	-	-	-	-				
5	GMC - 128	0.75	1.0	40	40	415	-	-	-	1.9	1.85	1.8	1.7	1.6	1.4	1.1	0.8	0.4	-	-	-	-	-	-	-	-				
6	GMC - 128	0.75	1.0	50	40	415	-	-	-	1.9	1.85	1.8	1.7	1.6	1.4	1.1	0.8	0.4	-	-	-	-	-	-	-	-				
7	GMC - 134	0.75	1.0	25	25	415	-	-	-	-	-	1.78	1.76	1.73	1.67	1.55	1.35	1.1	0.8	0.4	-	-	-	-	-	-				
8	GMC - 1.514	1.1	1.5	50	50	415	-	8.5	7.1	5.7	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
9	GMC - 1.522	1.1	1.5	50	40	415	-	6.3	5.9	5.5	5.0	4.5	3.9	3.1	1.8	-	-	-	-	-	-	-	-	-	-	-				
10	GMC - 1.525	1.1	1.5	50	40	415	2.6	2.55	2.5	2.45	2.4	2.3	2.2	2.1	2.0	1.8	1.6	1.3	0.4	-	-	-	-	-	-	-				
11	GMC - 1.540	1.1	1.5	32	25	415	-	-	-	-	-	-	-	-	2.0	1.9	1.7	1.6	1.45	1.3	1.1	0.9	0.6	-	-	-				
12	KDS - 212+	1.5	2.0	80	80	415	14.1	12.4	10.5	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
13	KDS - 216++	1.5	2.0	65	50	415	-	11.0	10.1	8.8	7.1	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
14	KDS - 225++	1.5	2.0	50	40	415	-	5.3	5.1	4.9	4.7	4.5	4.2	3.9	3.5	3.1	2.3	-	-	-	-	-	-	-	-	-				
15	KDS - 235+	1.5	2.0	50	40	415	-	-	4.1	4.0	3.9	3.7	3.5	3.4	3.2	3.0	2.7	2.4	2.0	1.3	-	-	-	-	-	-				
16	KDS - 314+	2.2	3.0	80	80	415	19.2	17.9	16.2	14.0	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
17	KDS - 314+	2.2	3.0	100	100	415	19.2	17.9	16.2	14.0	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
18	KDS - 318++	2.2	3.0	80	65	415	-	13.4	12.6	11.7	10.7	9.2	7.5	4.5	-	-	-	-	-	-	-	-	-	-	-	-				
19	KDS - 318++	2.2	3.0	65	50	415	-	13.4	12.6	11.7	10.7	9.2	7.5	4.5	-	-	-	-	-	-	-	-	-	-	-	-				
20	KDS - 325++	2.2	3.0	65	50	415	-	-	9.2	8.8	8.4	7.9	7.4	7.0	6.4	5.8	4.9	-	-	-	-	-	-	-	-	-				
21	KDS - 335++	2.2	3.0	50	40	415	-	-	-	5.05	4.9	4.8	4.6	4.5	4.35	4.2	4.0	3.8	3.5	3.2	2.7	2.0	-	-	-	-				
22	KDS - 515+	3.7	5.0	100	100	400	33.0	30.5	28.0	24.0	19.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
23	KDS - 520+	3.7	5.0	80	80	400	-	23.0	22.0	20.8	19.5	17.9	16.0	14.0	11.0	-	-	-	-	-	-	-	-	-	-	-				
24	KDS - 527++	3.7	5.0	80	65	400	-	-	-	-	-	14.3	13.5	12.5	11.6	10.4	8.7	6.4	-	-	-	-	-	-	-	-				
25	KDS - 538+	3.7	5.0	65	50	400	9.0	8.9	8.85	8.8	8.7	8.6	8.55	8.45	8.35	8.25	8.1	7.9	7.6	7.1	6.6	6.0	5.1	4.0	-	-				
26	KDS - 822++	5.5	7.5	100	100	400	-	-	-	27.3	25.6	24.0	22.1	20.0	17.5	14.5	-	-	-	-	-	-	-	-	-	-				
27	KDS - 830++	5.5	7.5	80	65	400	-	-	-	-	-	19.0	18.2	17.3	16.4	15.3	14.2	12.7	11.1	-	-	-	-	-	-	-				
28	KDS - 837+	5.5	7.5	65	65	400	-	-	-	-	-	-	-	-	12.75	12.6	12.5	12.2	11.8	11.1	10.3	9.0	7.3	-	-	-				
29	KDS - 844++	5.5	7.5	65	65	400	-	-	-	-	-	-	-	-	-	10.6	10.2	9.9	9.5	9.0	8.4	7.8	7.0	6.1	4.7	-				
30	KDS - 1030+	7.5	10.0	100	100	415	-	-	-	32.0	31.0	29.7	28.3	27.0	25.2	23.5	21.0	18.0	13.5	-	-	-	-	-	-	-				
31	KDS - 1040+	7.5	10.0	80	65	415	-	-	23.5	23.0	22.6	22.2	21.5	20.9	20.3	19.5	18.7	17.9	17.0	15.8	14.6	13.4	12.0	9.6	-	-				
32	KDS - 1331+	9.3	12.5	100	100	415	-	-	37.5	36.5	35.5	34.5	33.4	32.0	30.5	28.5	26.5	23.8	19.8	12.0	-	-	-	-	-	-				
33	KDS - 1537+	11.0	15.0	100	100	415	-	-	39.0	38.5	38.0	37.2	36.5	35.5	34.5	33.0	31.6	30.0	27.8	25.0	22.0	17.5	-	-	-	-				
34	KDS - 2030+	15.0	20.0	125	125	415	-	-	-	-	-	49.0	47.0	45.0	42.0	39.0	35.0	30.0	21.0	-	-	-	-	-	-	-				

PERFORMANCE CHART FOR 'KDS+/KDS++/GMC' SERIES, 2 POLE, MONOBLOC PUMP, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METRES																			
							14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	52	54
		kW	HP	SUC.	DEL.		DISCHARGE IN LITRES PER SECOND																			
35	KDS - 550++	3.7	5	50	40	400	-	-	-	-	-	-	-	-	-	-	-	4.1	3.9	3.7	3.5	3.3	3.0	2.7	2	-
36	KDS - 852++	5.5	7.5	65	50	400	-	-	-	-	-	-	-	-	-	8.6	8.3	8.0	7.75	7.4	7.1	6.7	6.3	5.9	4.5	-
37	KDS - 1050+	7.5	10	65	65	415	-	-	-	-	-	12.7	12.5	12.2	12.0	11.7	11.4	11.0	10.7	10.2	9.6	8.9	8.1	6.0	-	-
38	KDS - 1348+	9.3	12.5	80	65	415	-	-	-	-	19.5	19.2	18.8	18.5	18.1	17.6	17.2	16.6	15.9	15.1	14.3	13.0	11.9	10.2	6.5	-
39	KDS - 1555+	11.0	15	80	65	415	-	-	-	-	19.75	19.7	19.6	19.5	19.4	19.2	18.8	18.5	18.0	17.4	16.7	16.0	15.0	14.2	12.2	10.5
40	KDS - 2050+	15.0	20	100	80	415	35.0	34.2	33.8	33.0	32.2	31.7	30.8	30.1	29.5	28.8	28.0	27.0	26.0	25.0	24.0	22.5	21.0	19.4	13.5	-

PERFORMANCE CHART FOR 'KDS+/KDS++/GMC' SERIES, 2 POLE, MONOBLOC PUMP, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METRES																			
							18	22	26	28	30	32	34	36	40	44	46	48	52	56	60	64	68	72	76	80
		kW	HP	SUC.	DEL.		DISCHARGE IN LITRES PER SECOND																			
41	KDS - 1065++	7.5	10	65	50	415	-	-	-	-	-	-	-	-	7.8	7.3	7.1	6.9	6.4	5.8	5.1	4.3	3.0	-	-	-
42	KDS - 1360+	9.3	12.5	65	50	415	12.9	12.7	12.5	12.4	12.3	12.2	12.0	11.7	11.3	10.7	10.4	10.0	9.1	8.3	7.0	4.5	-	-	-	-
43	KDS - 1570+	11.0	15.0	65	50	415	-	-	-	13.2	13.1	13.0	12.9	12.8	12.5	12.0	11.8	11.5	10.7	10.0	9.0	8.0	6.5	-	-	-
44	KDS - 1575+	11.0	15.0	65	50	415	-	-	-	-	-	-	-	-	-	-	-	-	8.0	7.7	7.3	6.9	6.4	5.8	4.9	3.4
45	KDS - 2560+	18.5	25.0	100	80	415	-	-	-	-	-	-	-	-	-	26.0	24.7	23.5	21.0	17.0	7.0	-	-	-	-	-
46	KDS - 3068+	22.0	30.0	100	80	415	-	-	-	-	-	-	-	-	-	-	-	28.0	26.5	24.5	21.5	17.5	10.0	-	-	-

Note:

- All the pump set from 0.5 HP to 1.5 HP in mechanical seal arrangement and 2.0 HP to 20.0 HP in Gland pack arrangement except KDS - 212+ which is supplied only in mechanical seal arrangement.
- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.



Enriching Lives



Process for E-Warranty Registration for Newly Purchased Pumps



THROUGH KBL'S OFFICIAL WEBSITE

- ✓ Go to our website <https://www.kirloskarpumps.com>
- ✓ Scroll down to E-Warranty registration.
- ✓ Choose Customer Category, enter your mobile number, and verify with the OTP.
- ✓ Enter the product's serial number or scan the nameplate with your phone.
- ✓ Add purchase date and proceed.
- ✓ Complete the form and hit Submit.



USING WHATSAPP / EMAIL

- ✓ Share your invoice on KBL WhatsApp number - 9922710710 or mail us at kblcare@kbl.co.in



USING KBLONE4ALL APP

- ✓ Download KBLOne4All app from Google Play Store or iOS App Store.
- ✓ Choose Customer Category, input your mobile number, and verify with the OTP.
- ✓ Enter the 5-digit code received, then proceed.
- ✓ Add product details by manually entering the serial number or scanning the nameplate.
- ✓ Input purchase date and move to the next step.
- ✓ Complete required information, upload the invoice, and hit Submit.

Note : E-Warranty Registration is essential to experience hassle-free support & after-sale service.

KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company



We are now on WhatsApp to assist you better

9922710710

Toll Free Number: 1800 123 4443

www.kirloskarpumps.com

Registered Office & Global Headquarters: "Yamuna", Survey No. 98/(3 to7), Plot No. 3, Baner, Pune - 411 045, Maharashtra, India

Email: marketing@kbl.co.in, Website: www.kirloskarpumps.com CIN No.: L29113PN1920PLC000670



Enriching Lives

KDS

SINGLE PHASE MONOBLOC PUMP



STRENGTHENED BY
99.9%
PURE EC GRADE
COPPER WINDING WIRES

**High Efficiency and
Energy Saving Design**



Delivers optimum
efficiency at lower energy
consumption

**Wide Voltage
Range Operability**



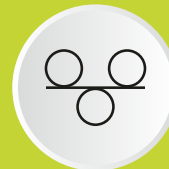
Protect the motor
from burning due to
lower/higher voltage

**CED
Coating**



Better
resistance against
corrosion

**Dynamically Balance
Rotating Parts**



Resulting in lesser
vibrations and longer
trouble-free operation

BUY ELECTRIC PUMPS WITH PURE COPPER WINDING WIRES ONLY. ENQUIRE BEFORE BUYING.

ALWAYS BUY PUMPS WITH



Enriching Lives

and LOGOS ON PACKAGING



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We are now on WhatsApp to assist you better

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Toll Free Number: **1800 123 4443**

www.kirloskarpumps.com

KDS

SINGLE PHASE MONOBLOC PUMP

TECHNICAL SPECIFICATION

Head Range	- Up to 52 Metres
Discharge Range	- Up to 28 LPS
Power Rating	- 0.37 to 3.7 kW (0.5 to 5.0 HP)
Voltage Range	- 180 to 240 Volts (Single Phase) 120 to 220 Volts (Low Voltage) 230 to 400 Volts ("P" Series)
Insulation	- B / F Class
Protection	- IP44

MATERIAL OF CONSTRUCTION

Impeller	- Cast Iron/Noryl
Delivery Casing	- Cast Iron
Motor Body	- Cast Iron
Pump Shaft	- Carbon Steel
Sealing	- Mechanical Seal

APPLICATIONS

- Gardening and small farm irrigation
- Lawn sprinklers
- Water supply for high rise buildings
- Domestic and community water supply
- Water transfer and circulation

FEATURES

Wide Voltage Design

The motor is designed to withstand wide voltage variation which reduces motor burning in case of low/high voltage.

Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

TOP - Thermal Overload Protector

The pump set features a Thermal Overload Protector that protects the motor from overloading, shielding of the motor and associated circuit from the effects of fault current

CED – Cathodic Electro Deposition

CED is the latest coating technology for corrosion resistance with uniform coating. It provides 5 times more protection over conventional painting, resulting in longer life. All major CI parts of Kirloskar pumps coming in contact with the water are CED coated.

Automatic Air Release

Automatically releases air when the pump starts ensuring swifter and smoother operations, thus eliminating the necessity of operating air release cock.

High Efficiency and Energy Saving Design

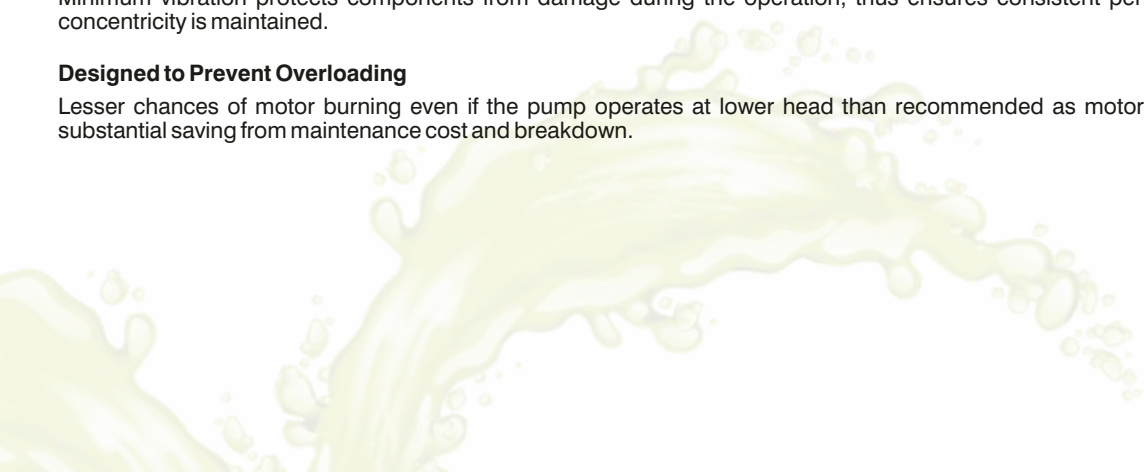
Innovative design manufactured at state of art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

Dynamically Balanced Rotating Parts

Minimum vibration protects components from damage during the operation, thus ensures consistent performance over longer time period as concentricity is maintained.

Designed to Prevent Overloading

Lesser chances of motor burning even if the pump operates at lower head than recommended as motor does not get overload thus ensures substantial saving from maintenance cost and breakdown.



PERFORMANCE CHART FOR KDS SERIES, 2 POLE, MONOBLOC PUMP, AT RATED VOLTAGE,
50 Hz FREQUENCY, SINGLE PHASE A.C. POWER SUPPLY

S. N.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METRES																
		kW	HP	SUC.	DEL.		4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	
							DISCHARGE IN LITRES PER SECOND																
1	KDS - 0510+	0.37	0.50	50	40	210	-	3.4	2.6	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-
2	KDS - 112	0.75	1.00	50	50	210	-	6.9	5.5	3.9	2.0	-	-	-	-	-	-	-	-	-	-	-	-
3	KDS - 116++	0.75	1.00	50	40	210	-	5.4	5.0	4.6	4.2	3.6	3.0	1.9	-	-	-	-	-	-	-	-	-
4	KDS - 116++	0.75	1.00	50	50	210	-	5.4	5.0	4.6	4.2	3.6	3.0	1.9	-	-	-	-	-	-	-	-	-
5	KDS - 123+	0.75	1.00	32	25	210	-	-	-	4.1	3.6	3.2	2.7	2.2	1.7	0.9	-	-	-	-	-	-	-
6	KDS - 128+	0.75	1.00	32	25	210	-	-	-	-	1.9	1.85	1.8	1.7	1.6	1.4	1.1	0.8	0.4	-	-	-	-
7	KDS - 128+	0.75	1.00	50	40	210	-	-	-	-	1.9	1.85	1.8	1.7	1.6	1.4	1.1	0.8	0.4	-	-	-	-
8	KDS - 128+	0.75	1.00	40	40	210	-	-	-	-	1.9	1.85	1.8	1.7	1.6	1.4	1.1	0.8	0.4	-	-	-	-
9	KDS - 134+	0.75	1.00	25	25	210	-	-	-	-	-	-	-	2.1	1.9	1.7	1.5	1.3	1.0	0.7	-	-	-
10	KDS - 1.514	1.10	1.50	65	50	210	-	-	8.5	7.1	5.7	3.0	-	-	-	-	-	-	-	-	-	-	-
11	KDS - 1.514++	1.10	1.50	50	50	210	-	-	8.5	7.1	5.7	3.0	-	-	-	-	-	-	-	-	-	-	-
12	KDS - 1.522++	1.10	1.50	50	40	210	-	-	6.3	5.9	5.5	5.0	4.5	3.9	3.1	1.8	-	-	-	-	-	-	-
13	KDS - 1.525+	1.10	1.50	50	40	210	-	2.6	2.55	2.5	2.45	2.4	2.3	2.2	2.1	2.0	1.8	1.6	1.3	0.4	-	-	-
14	KDS - 211N	1.50	2.00	80	80	230	14.3	12.7	10.7	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-
15	KDS - 216M	1.50	2.00	80	80	230	-	-	11.0	10.1	8.8	7.1	4.0	-	-	-	-	-	-	-	-	-	-
16	KDS - 216++	1.50	2.00	65	50	230	-	-	11.0	10.1	8.8	7.1	4.0	-	-	-	-	-	-	-	-	-	-
17	KDS - 222	1.50	2.00	65	50	220	-	-	-	8.4	8.0	7.5	6.7	5.7	4.2	2.0	-	-	-	-	-	-	-
18	KDS - 225++	1.50	2.00	50	50	230	-	-	5.3	5.1	4.9	4.7	4.5	4.2	3.9	3.5	2.8	-	-	-	-	-	-
19	KDS - 225++	1.50	2.00	50	40	230	-	-	-	-	6.3	6.1	5.9	5.6	5.2	4.8	4.2	3.0	-	-	-	-	-
20	KDS - 235+	1.50	2.00	50	40	230	-	-	4.3	4.2	4.1	4.0	3.9	3.7	3.5	3.3	3.0	2.9	2.3	2.0	1.3	0.5	-
21	KDS - 312	2.20	3.00	100	100	230	20.0	17.5	14.5	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-
22	KDS - 314+	2.20	3.00	100	100	230	-	19.2	17.9	16.2	14.0	10.5	-	-	-	-	-	-	-	-	-	-	-
23	KDS - 314+	2.20	3.00	80	80	230	-	19.2	17.9	16.2	14.0	10.5	-	-	-	-	-	-	-	-	-	-	-
24	KDS - 318++	2.20	3.00	80	65	230	-	-	13.4	12.6	11.7	10.7	9.2	7.5	4.5	-	-	-	-	-	-	-	-
25	KDS - 318++	2.20	3.00	65	50	230	-	-	13.4	12.6	11.7	10.7	9.2	7.5	4.5	-	-	-	-	-	-	-	-
26	KDS - 318+	2.20	3.00	80	80	230	-	-	13.4	12.6	11.7	10.7	9.2	7.5	4.5	-	-	-	-	-	-	-	-
27	KDS - 325++	2.20	3.00	65	50	230	-	-	-	9.2	8.8	8.4	7.9	7.4	7.0	6.4	5.8	4.9	-	-	-	-	-
28	KDS - 335++	2.20	3.00	50	40	230	-	-	-	-	5.7	5.5	5.4	5.2	5.0	4.8	4.5	4.3	3.9	3.5	3.0	2.3	-
29	KDS - 515+	3.70	5.00	100	100	230	-	-	-	28.0	24.0	19.0	12.5	-	-	-	-	-	-	-	-	-	-
30	KDS - 520+	3.70	5.00	80	80	230	-	23.8	23.0	22.1	21.0	19.6	17.9	15.8	13.5	11.0	-	-	-	-	-	-	-
31	KDS - 527+	3.70	5.00	80	65	230	-	-	-	-	-	-	14.3	13.5	12.6	11.6	10.4	9.1	6.8	-	-	-	-
							16	18	20	22	24	26	28	30	32	34	36	38	40	44	48	52	
32	KDS - 1.540+	1.10	1.50	32	25	230	-	-	-	2.0	1.9	1.7	1.6	1.45	1.3	1.1	0.9	0.6	-	-	-	-	-
33	KDS - 246	1.50	2.00	32	25	210	-	-	-	-	-	-	-	3.2	2.9	2.7	2.5	2.2	1.7	0.5	-	-	-
34	KDS - 538+	3.70	5.00	65	50	230	-	8.4	8.3	8.2	8.1	7.9	7.7	7.5	7.1	6.6	5.8	5.0	4.0	-	-	-	-
35	KDS - 550++	3.70	5.00	50	40	230	-	-	-	-	-	-	-	-	-	-	4.1	3.9	3.7	3.3	2.7	2.0	-

Note:

- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

PERFORMANCE CHART FOR 'KDS-LV' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE,
50Hz FREQUENCY , SINGLE PHASE A.C. POWER SUPPLY

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS											
		kW	HP	SUC.	DEL.		4	6	8	10	12	14	16	18	20	22	24	26
							DISCHARGE IN LITRES PER SECOND											
1	KDS - 112 LV	0.75	1.0	50	50	160	-	6.3	5.0	3.1	-	-	-	-	-	-	-	-
2	KDS - 113 LPLV	0.75	1.0	50	50	200	-	-	7.0	5.7	4.2	2.1	-	-	-	-	-	-
3	KDS - 116 LV	0.75	1.0	50	40	160	-	-	-	4.4	3.9	3.4	2.7	-	-	-	-	-
4	KDS - 128 LV	0.75	1.0	40	40	160	-	-	-	-	-	2.05	1.85	1.65	1.45	1.2	0.9	0.6
5	KDS - 1.514+ LV	1.1	1.5	65	50	160	-	8.3	7.4	6.4	5.0	2.8	-	-	-	-	-	-
6	KDS - 1.514 LV	1.1	1.5	50	50	160	-	8.3	7.4	6.4	5.0	2.8	-	-	-	-	-	-
7	KDS - 1.514++L	1.1	1.5	65	50	160	-	8.3	7.4	6.4	5.0	2.8	-	-	-	-	-	-
8	KDS - 1.514++L	1.1	1.5	50	50	160	-	8.3	7.4	6.4	5.0	2.8	-	-	-	-	-	-
9	KDS - 212N LV	1.5	2.0	80	80	200	-	-	14.2	11.8	9.0	-	-	-	-	-	-	-
10	KDS - 216LV+	1.5	2.0	65	50	200	-	-	10.0	9.0	7.9	6.5	3.5	-	-	-	-	-
11	KDS - 216LV	1.5	2.0	80	65	200	-	-	10.0	9.0	7.9	6.5	3.5	-	-	-	-	-
12	KDS - 222 LV	1.5	2.0	65	50	200	-	-	-	8.4	8.0	7.5	6.7	5.7	4.2	2.0	-	-
13	KDS - 312 LV	2.2	3.0	100	100	200	20.0	17.0	14.0	10.0	-	-	-	-	-	-	-	-

Note:

- LV Denotes - Low Voltage
- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

KDS

SINGLE PHASE MONOBLOC PUMP

PERFORMANCE CHART FOR 'KDS-P' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50Hz FREQUENCY, SINGLE PHASE A.C. POWER SUPPLY

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS										
							6	8	10	12	14	16	18	20	22	24	26
		kW	HP	SUC.	DEL.		DISCHARGE IN LITRES PER SECOND										
1	KDS - 112 P	0.75	1.0	50	50	240	6.5	5.4	4.0	2.0	-	-	-	-	-	-	-
2	KDS - 113 LP	0.75	1.0	50	50	240	-	6.5	5.3	3.5	1.5	-	-	-	-	-	-
3	KDS - 116+ P	0.75	1.0	50	50	240	-	5.1	4.5	3.9	3.1	2.0	-	-	-	-	-
4	KDS - 1.516 LP	1.1	1.5	65	50	240	-	-	8.3	7.0	5.2	2.8	-	-	-	-	-
5	KDS - 1.525+ P	1.1	1.5	50	40	240	2.20	2.15	2.05	2.00	1.90	1.85	1.75	1.6	1.3	0.9	-
6	KDS - 213N	1.5	2.0	80	80	240	15.2	13	10.0	6.0	-	-	-	-	-	-	-
7	KDS - 214LP	1.5	2.0	80	80	240	14.0	12.0	10.0	7.5	-	-	-	-	-	-	-
8	KDS - 216LP	1.5	2.0	80	65	240	-	9.8	8.3	6.8	5.0	2.0	-	-	-	-	-
9	KDS - 216A	1.5	2.0	65	50	240	-	9.0	8.0	6.8	5.1	2.8	-	-	-	-	-
10	KDS - 216+ P	1.5	2.0	65	50	240	-	10.0	9.1	7.9	6.2	3.4	-	-	-	-	-
11	KDS - 222P	1.5	2.0	65	50	240	-	8.2	7.8	7.0	6.2	5.3	4.0	1.2	-	-	-
12	KDS - 225+ P	1.5	2.0	50	40	240	-	-	-	-	4.35	4.05	3.75	3.45	3.1	2.5	-
13	KDS - 312 P	2.2	3.0	100	100	240	13.7	10.2	6.0	-	-	-	-	-	-	-	-
14	KDS - 314+ P	2.2	3.0	100	100	240	17.0	15.3	13.5	11.2	7.0	-	-	-	-	-	-
15	KDS - 325++ P	2.2	3.0	65	50	240	-	-	-	-	-	7.5	6.8	6.0	5.3	4.5	3.5
16	KDS - 527+ P	3.7	5.0	80	65	240	-	-	-	-	13.8	12.9	12.0	11.1	10.2	9.2	7.6

Note:

- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

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www.kirloskarpumps.com

Registered Office & Global Headquarters: "Yamuna", Survey No. 98/(3 to7), Plot No. 3, Baner, Pune - 411 045, Maharashtra, India

Email: marketing@kbl.co.in, Website: www.kirloskarpumps.com CIN No.: L29113PN1920PLC000670

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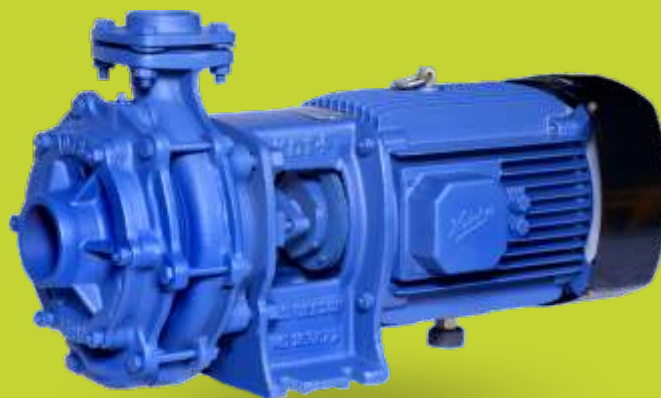


Enriching Lives



KDT

THREE PHASE
MONOBLOC PUMPS



KIRLOSKAR BROTHERS LIMITED

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KIRLOSKAR PUMPS

TECHNICAL SPECIFICATION

Head Range	: Upto 98 metres
Discharge Range	: Upto 20 lps
Power Ratings	: 3.7 to 15 kW (5 to 20 HP)
Voltage Range	: 300 to 440 Volts (Three Phase)
Insulation	: B / F Class
Protection	: IP 44 / IP 55

MATERIAL OF CONSTRUCTION

Impeller	: Cast Iron / Bronze / Stainless Steel
Delivery Casing	: Cast Iron
Motor Body	: Cast Iron
Pump Shaft	: Carbon Steel / Stainless Steel
Sealing	: Gland Packed / Mechanical Seal

APPLICATIONS

- Air conditioning and refrigeration systems
- Cooling towers
- Clear water handling at high pressure in industries
- Fire fighting systems
- Industrial pressure boosting

FEATURES

Flatter Efficiency Curve

Minimum variations in efficiency during entire operating range increases the utility of pumpset for variable conditions.

High Head Applications

The pump has been designed to deliver large volumes of water for high head applications, helping customers to achieve high turnaround time and productivity.

Wide Voltage Design

The motor is designed to withstand wide voltage fluctuations from 350 to 440 volts and reduces motor burning in case of low voltage.

Designed to Prevent Overloading

Lesser chances of motor burning as the motor does not get overloaded even if the pump is operated at a head lower than recommended, thus ensuring substantial cost savings due to low maintenance and breakdown.

Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

Dynamically Balanced Rotating Parts

Minimum vibrations protect components from damages during the operations, thus ensuring consistent performance as concentricity is maintained.

CED – Cathodic Electro Deposition

CED is the latest coating technology for corrosion resistance with uniform coating. It provides 5 times more protection over conventional painting, resulting in longer life. All major CI parts of Kirloskar pumps coming in contact with the water are CED coated.

Automatic Air Release

Automatically releases air when the pump starts which ensures swifter and smoother operations, thus eliminating the necessity of operating air release cock and ensures swifter and smoother operations.

High Efficiency And Energy Saving Design

Innovative design manufactured at state-of-the-art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

PERFORMANCE CHART FOR 'KDT+' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METRES													
		kW	HP	SUC.	DEL.		28	32	36	40	44	48	52	56	60	64	68	72	76	
							DISCHARGE IN LITRES PER SECOND													
1	KDT-544*	3.7	5	65	50	400	6.8	6.2	5.6	4.8	3.5	-	-	-	-	-	-	-	-	
2	KDT-568+	3.7	5	50	40	400	-	-	4.3	4.0	3.7	3.4	3.0	2.5	2.0	1.2	-	-	-	
3	KDT-844+	5.5	7.5	80	65	400	11.8	10.9	10.0	9.0	7.5	-	-	-	-	-	-	-	-	
4	KDT-864+*	5.5	7.5	65	50	400			7.3	7.0	6.5	6.0	5.5	5.0	4.2	2.7	-	-	-	
5	KDT-1050+*	7.5	10	80	65	415	13.8	13.2	12.4	11.5	10.5	9.2	7.8	-	-	-	-	-	-	
6	KDT-1078+	7.5	10	65	50	415	-	-	8.2	8.0	7.8	7.5	7.1	6.7	6.2	5.6	4.9	4.0	2.0	
7	KDT-1372+*	9.3	12.5	65	65	415	-	-	11.5	11.0	10.5	9.5	9.2	9.0	7.8	7.0	6.0	4.5	2.5	
8	KDT-2070+*	15	20	80	65	415	-	-	-	20.0	19.0	18.0	17.0	16.0	15.0	13.5	12.0	9.0	-	
							48	52	56	60	64	68	72	76	80	90	94	98	-	
9	KDT-1388+	9.3	12.5	65	50	415	-	-	-	7.5	6.9	6.5	6.2	5.8	5.4	3.8	-	-	-	
10	KDT-1580+*	11	15	65	65	415	11.2	10.5	10.1	9.5	9.0	8.3	7.8	7.1	6.2	3.2	-	-	-	
11	KDT-1598+	11	15	65	50	415	-	-	-	-	-	-	7.8	7.1	6.7	5.7	5.3	4.8	-	
12	KDT-2095+*	15	20	65	65	415	-	-	-	-	-	12.0	11.5	10.9	10.2	8.0	7.0	5.5	-	

Note: * Marked pumps are ISI certified.

Performance applicable to liquid of specific gravity 1 and viscosity as of water.

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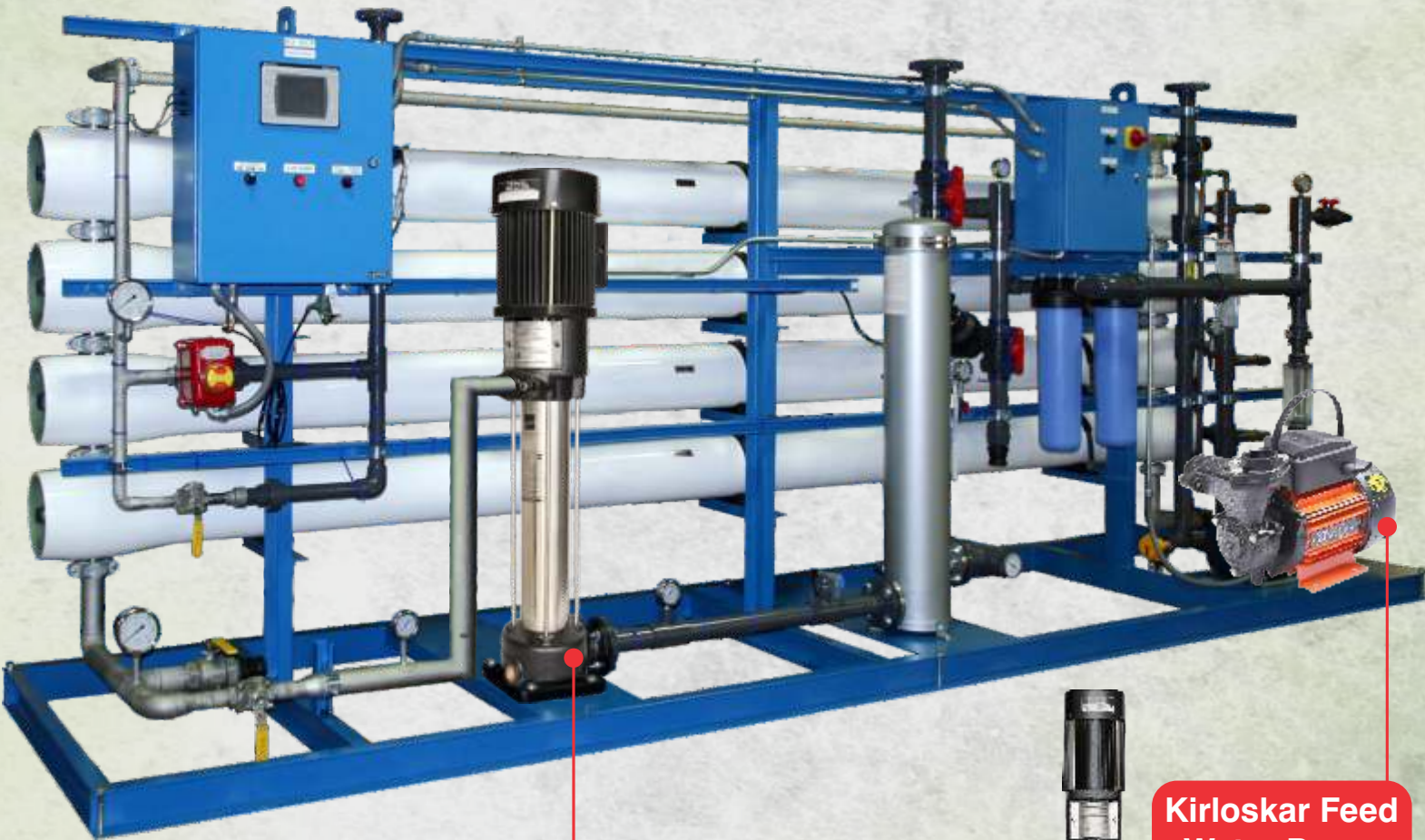
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Enriching Lives

KIRLOSKAR PUMPS

SPECIALLY DESIGNED AND MADE
TO LAST A LIFETIME* FOR RO PLANTS



KVM - Kirloskar
High Pressure Pump

Kirloskar Feed
Water Pump



KVM - High Pressure Pump
Rewarded India Design Mark



**INDIA
DESIGN
MARK**
awarded in 2020

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KIRLOSKAR PUMPS

PRODUCT DESCRIPTION

Kirloskar Vertical Multi-stage pump (KVM) is specially designed for use in RO plants for pumping water at high pressure across the membranes to deliver potable and safe drinking water. Being the heart of the RO plant, KVM is built with components that do not deteriorate with time and ensure reliable operations. It is also highly efficient, compact and light-weight, thus enabling space saving and ease of integration in the plant. The pump is available in various sizes depending on its concerned application in the RO plant. KVM can also be used for pressure boosting, firefighting, industrial washing, air conditioning.

FEATURES

- **High Grade Engineering Polymer Impellers and Diffuser**
 - Excellent chemical resistance to most of the acids, bases, chlorides and cleaning agents
 - Excellent hydrolytic stability
 - Excellent long term dimensional stability for reliable and consistent performance
- **Keyed Shaft**
 - Positive impeller locking for better life
- **Wide Voltage Range**
 - The motor is designed to withstand wide voltage fluctuations (ranging between 180 -240 V (1Ø) and 300- 440V (3Ø)) that prevents motor burning in case of voltage variations.
- **Light-weight**
 - Easy handling
 - Easy to integrate in the system
- **High Efficiency**
 - Low power consumption
- **CED Coating**
 - CED is the latest coating technology for corrosion resistance that comes with an uniform coating, which provides 5 times more protection over conventional painting, resulting in longer life. All major CI parts of Kirloskar pumps that come in contact with water are CED coated.
- **Wide operating range with flatter characteristics for a stable performance.**
- **Cartridge Type Mechanical Seal**
 - Superior quality cartridge type mechanical seal with high quality graphite and hard alloy ensures better heat resistance wear resistance capacity, zero leakage, lower friction loss, will not wear the shaft, easy maintenance without opening pump and longer life.

TECHNICAL SPECIFICATION

Head Range : Upto 175 Meters
Discharge Range : Upto 25 m³/hr
Power Rating : Upto 5.5 kW (7.5HP)
Voltage Range : 180 to 240 Volts (Single Phase)
300 to 440 Volts (Three Phase)
Insulation : F Class
Protection : IP 44
pH Value : 5 - 8.5

OTHER APPLICATIONS

- Pressure boosting and lifting water in apartments and bungalows
- Irrigation
- Firefighting systems and washing systems
- Air conditioner, cooling system and industrial cleaning
- Hydro Pneumatic System

PERFORMANCE CHART FOR KVM SERIES, 2 POLE, AT RATED VOLTAGE OF 230/415 VOLTS, 50 Hz FREQUENCY, SINGLE/THREE PHASE A.C. POWER SUPPLY																
S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		No of stages	lps m³/hr	0.28	0.42	0.56	0.69	0.83	0.97	1.11	1.39	1.67
		kW	HP	SUC.	DEL.			1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0
1	KVM-2070	1.1	1.5	25	25	10	Head In Meters	75	73	70	64	58	51	45	27	11
2	KVM-2085	1.1	1.5	25	25	12		90	88	85	78	69	62	54	33	13
3	KVM-2100	1.5	2	25	25	14		108	105	100	94	85	75	67	44	18
4	KVM-2115	1.5	2	25	25	16		123	120	115	106	96	85	75	47	20
5	KVM-2130	2.2	3	25	25	19		147	145	140	127	113	99	87	54	22
6	KVM-2170	2.2	3	25	25	23		175	171	165	150	135	120	106	66	27

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		No of stages	lps m ³ /hr	0.28	0.56	0.83	1.11	1.39	1.67	1.94	2.22	2.50
		kW	HP	SUC.	DEL.			1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
1	KVM-4084	2.2	3	32	32	12	Head In Meters	93	90	86	81	73	65	53	40	25
2	KVM-4114	3.7	5	32	32	16		127	124	120	114	103	88	72	53	35
3	KVM-4122	3.7	5	32	32	18		142	136	130	122	111	96	80	60	40
4	KVM-4136	3.7	5	32	32	20		160	154	145	135	123	106	87	66	45

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		No of stages	lps m ³ /hr	0.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00
		kW	HP	SUC.	DEL.			2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0
1	KVM-10078	3.7	5	42	42	8	Head In Meters	91.5	89	87	83	78	72	66	57.5	49
2	KVM-10098	5.5	7.5	42	42	10		113	110	107	104	98	91	82	72	60
3	KVM-10115	5.5	7.5	42	42	12		138	135	129	123	115	107	98	87	74

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		No of stages	lps m ³ /hr	0.83	1.67	2.5	3.33	4.17	5	2.83	6.66	6.94
		kW	HP	SUC.	DEL.			3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	25.0
1	KVM-15045	3.7	5	65	65	4	Head In Meters	56	54	52	49	45	40	35	29	26
2	KVM-15072	5.5	7.5	65	65	6		85	82	80	76.5	72	66	59	49	45

* Under specified working conditions

KVM-10078, KVM-10098, KVM-10115, KVM-15045 and KVM-15072 are inline pump and supplied with IE4 three phase motor as a standard scope of supply.

KIRLOSKAR BROTHERS LIMITED

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LIFTER SERIES

SHALLOW WELL PUMPS

NOW WITH UP TO 260% HIGHER DISCHARGE*



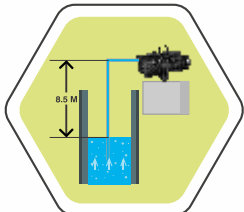
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Insulation

12
MONTHS
WARRANTY

STRENGTHENED BY
99.9%
PURE EC GRADE
**COPPER WINDING
WIRES**

KEY FEATURES

HIGH SUCTION LIFT
UP TO 8.5 M



SUPERIOR PERFORMANCE
UP TO 72% LESS TIME TO FILL THE TANK



CED COATING
FOR BETTER RESISTANCE
AGAINST CORROSION



MORE SAVINGS
ON ELECTRICITY BILL



BUY ELECTRIC PUMPS WITH PURE COPPER WINDING WIRES ONLY. ENQUIRE BEFORE BUYING.

*In comparison with nearest competitor.

ALWAYS BUY PUMPS WITH



and



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LIFTER SERIES

Shallow Well Pumps

Features

- **Superior Performance** : Up to 260% Higher discharge* as compared to competition in same class will lead to save up to 72% time to fill the 2000 liters overhead tank
- **High Suction Lift** : The pump has suction lift capacity up to 8.5 meters with high head, allowing to pump water at high volumes for a variety of applications.
- **High Grade F - Class Insulation** : Robust design to withstand higher temperatures, which ensure the reliability, safety of equipment and enhances the life.
- **Cathodic Electro Deposition (CED) Coating**: CED is the latest coating technology for corrosion resistance with uniform coating, provides 5 times more protection over conventional painting, resulting in longer life. Hydraulic parts of Kirloskar pumps are CED coated.
- **Wide Voltage Design** : The motor is designed to withstand wide voltage variation from 160 to 240 volts and reduces motor burning in case of low/high voltage.
- **High Efficiency and Energy Saving Design** : Innovative design manufactured at state of art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.
- **Enhanced Grip and Portability** : A handle attached to the pump allows user to carry the pump anywhere, adding to its portability and convenience of use.
- **Dynamically Balanced Rotating Parts**: Minimum vibrations protect components from damages during the operations, consistent performance as concentricity is maintained.
- **Easy Maintainable Designs** : Easy maintainable design and better interchangeability of components so that pump can be serviced even at remote locations by semi-skilled technicians.

*In comparison with nearest competitor.

Applications

- Pumping water from shallow wells and tanks.
- Domestic water supply.
- Lifting water to Apartments and Houses.
- Lawn sprinklers and water transfer.



Technical Specifications

Head Range	Up to 38 meters
Discharge Range	Up to 5115 LPH
Power Rating	0.37 to 1.1 kW (0.5 to 1.5 HP)
Phase	Single
Voltage Range	160 - 240 Volts
Insulation Class	'F' Class

PERFORMANCE CHART FOR LIFTER SERIES, AT RATED VOLTAGE, 50 Hz FREQUENCY, SINGLE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS												
							6	9	12	20	22	24	26	28	30	32	34	36	38
		kW	HP	SUC.	DEL		DISCHARGE IN LITRES PER HOUR												
1	LIFTER 75	0.37	0.5	25	25	220	2700	2610	2520	2375	2360	2340	2230	2090	1944	1600	1400	1080	-
2	LIFTER 125	0.75	1.0	25	25	220	-	-	-	4600	4560	4430	4210	3880	3300	2750	2100	1620	-
3	LIFTER 175	1.1	1.5	25	25	220	-	-	-	5115	5080	4935	4685	4325	3675	3065	2345	1805	1300

Note:

- Performance is under standard test conditions and may vary on site conditions.
- Performance is applicable to liquid of specific gravity 1 and viscosity as of water.

KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company

Registered Office & Global Headquarters: "Yamuna", Survey No. 98/(3 to7), Plot No. 3, Baner, Pune - 411 045, Maharashtra, India **Tel:** +91(20)27214444, **Email:** marketing@kbl.co.in, **Website:** www.kirloskarpumps.com
CIN No.: L29113PN1920PLC000670



FOR SERVICE OF PUMPS

We are now on WhatsApp to assist you better
9922710710

(OR) Call on Toll Free Number:
1800 123 4443

KIRLOSKAR PUMPS

Mini Range Pump

Installation, Operation and Maintenance Manual



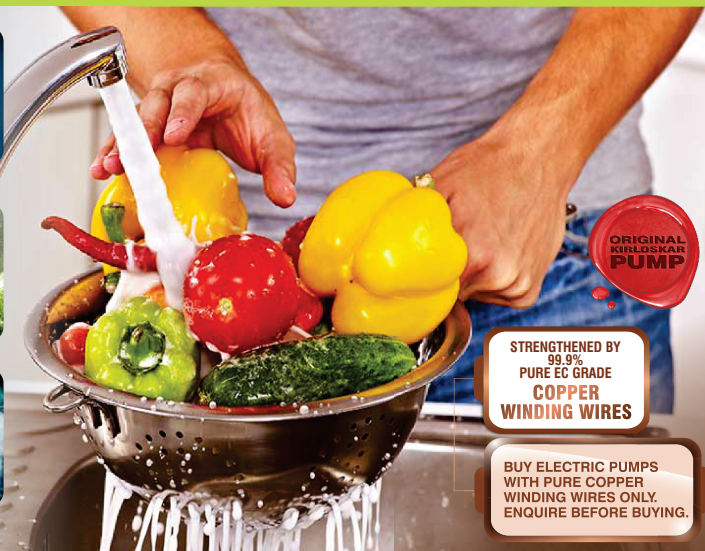
Bathroom
Showers



Gardening



Pressurised Washing of
Vehicles



ORIGINAL
KIRLOSKAR
PUMP

STRENGTHENED BY
99.9%
PURE EC GRADE
COPPER
WINDING WIRES

BUY ELECTRIC PUMPS
WITH PURE COPPER
WINDING WIRES ONLY.
ENQUIRE BEFORE BUYING.



ANNIKA - I



ANISA - I



AQUA TORRENT-10FCL



JALDAKSH

CM-0071

KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

Congratulations.

on your acquiring one of the finest pumps in the country.

The KIRLOSKAR pump series in your possession is scientifically designed by using the state of art design software (CREO,ANSYS,CFD) for better aesthetics, performance, optimum material Contents etc. These pumps are reliable, robust, compact in size. careful selection of materials, manufacturing and testing assures you a satisfactory performance over a long period of time.

These pumps will give you years of trouble free performance if it is handled with due care. This booklet is a step in this direction. It covers general instructions on installation, operation and maintenance of Kirloskar pumps. Please read booklet comply with the instructions and your pump is bound to serve you well.

While reporting the damages or missing part always quote name plate details including its Sr. No.

Our products are meant for pumping water and they do not have any significant effect on environment during their use, if properly selected and used as per instructions given in this manual.

Customers are advised to dispose unusable components through appropriate disposal agencies to avoid the impact on work environment.

DO NOT RUN THE PUMP DRY TO AVOID DAMAGE TO SEAL

FOR PROMPT SERVICE & SPARES



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Toll Free Number: **1800 123 4443**

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Features

- ✓ TEFC (Totally Enclosed Fan-cooled) Motor
- ✓ Capacitor start and run motor.
- ✓ B' Class of insulation.
- ✓ Specially processed steel shaft for corrosion resistance and durability
- ✓ Fitted with Thermal Overload Protector (TOP) for safety of motor.
- ✓ Both side double shielded ball bearings. No Need of external lubrication.
- ✓ Sturdy and rigid in construction.
- ✓ Aluminum extruded motor body for better heat dissipation and corrosion.
- ✓ Motor can withstand wide voltage fluctuations

Installation & Use

- ✓ Read the operation manual carefully before installing the pump.
- ✓ Your pump is provided with broad based feet and hence does not require any special foundation for installation.
- ✓ Use specified pipe size to get higher discharge.
- ✓ Though suction lift capacity of the pump is 7m, for more discharge keep suction lift as minimum as possible.
- ✓ Ensure minimum number of BENDS and fittings in the pipeline. Ensure air tight joints.
- ✓ Use of additional foot valve is recommended for trouble free performance of pump.

OR

- ✓ Fit a correct size strainer at suction end so that no foreign matter (Hard particles) can enter the pump.
- ✓ The horizontal length of the suction pipe should be straight. The pumpset must be installed in an enclosed environment or at least sheltered from inclement weather

Precautions

- ✓ Keep strainer end at least one foot above the bottom of the well or tank.
- ✓ Suitable for use with clean water that does not contain abrasive particles and liquid that are not chemically aggressive towards the material from which the pump is made.
- ✓ During cleaning of well or tank, do not suck residual muddy water through pump.
- ✓ Do not use any gate valve for throttling the delivery pipe, as this will result in overloading of the pump and subsequently burning of motor.
- ✓ Do not run the pump dry to avoid the damage to mechanical seal.

Operation

- ✓ Before starting the pump for the first time, fill it with clean water.
- ✓ Check the freeness of shaft by rotating it with the help of a screw driver.
- ✓ A provision should be made in the delivery branch of the pump for easy priming. Open the priming plug / air vent nipple cock, fill water through the priming hole and tighten the plug. Now the pump is ready for starting.

Maintenance

- ✓ Ensure daily or alternate day running of the pump.
- ✓ If pump is to be kept idle for a long period, fill it fully with water or any other preservative.
- ✓ Periodically clean the strainer to avoid clogging.
- ✓ Do not wrap the pump with air tight material such as polythene bag to avoid condensation.

Caution & Care

During servicing or attending the pump, always ensure that:

- ✓ Power is switched off and unplugged.
- ✓ Electrical Connections are to be serviced only by qualified personnel.
- ✓ All parts are thoroughly cleaned in kerosene to remove the dirt and dust before re-assembly
- ✓ All parts are checked and replaced if damaged and worn out.
- ✓ Ensure that shaft rotates freely after assembly.

Detailed Installation Procedure

Unboxing and E-warranty Registration

- On opening the box, a Product Manual is available inside the box. Please go through the manual thoroughly before proceeding for installation.
- Warranty card is included in the manual on the back cover.
- A QR code is given on the warranty card. Please scan the QR Code from the card through your mobile phone using any QR Code scanner app. It will lead you to E warranty registration of the product for availing hassle free service.
- A strainer is also available in the box, which is to be fitted at the end of suction pipe to prevent any foreign objects from entering the pump and prevent the pump from any damage.



Tools / Accessories Required

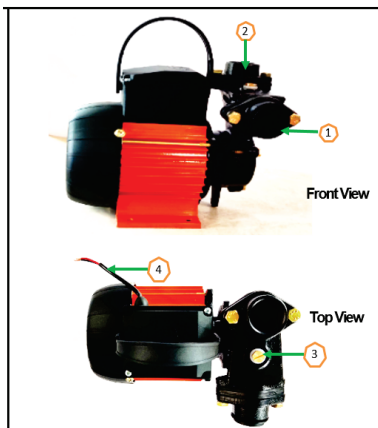
1. Plier
2. Adjustable Pipe Wrench
3. Screw Driver
4. Spanner(13mm)
5. Pipe Clips
6. Hose Nipples
7. 90°GI Bend
8. Thread Sealing Tape - Teflon Tape
9. Cable With Plug And Socket
10. Connecting Pin
11. Rigid HDPE / GI Suction Pipe
12. Delivery Pipe As Per Requirement

*** size of suction and delivery pipe should be as per recommended size (please refer leaflet of the product)**



1. Suction Flange.
2. Delivery Flange.

3. Brass nut for water filling.
4. Electric cable for power connection.



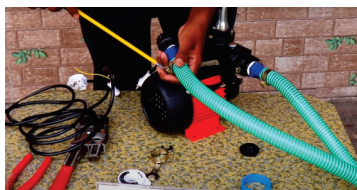
Suction Flange Pipe Nipple Connection

1. Take the hose nipple and wrap teflon tape on the threaded portion to avoid any leakages through threads.
2. fit the hose nipple on the suction flange.



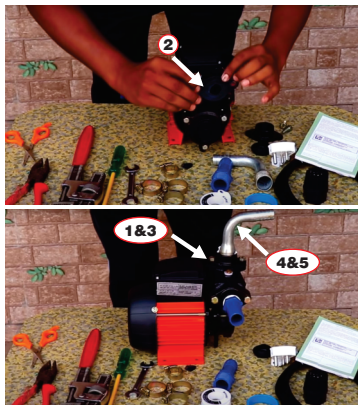
Suction Pipe Connection

1. Fix the suction pipe on the hose nipple of the pump inlet. It is advisable to slightly heat the hose pipe for easy fitting.
2. Use the pipe clip for tightening purpose.
3. Add the strainer at the other end of the suction Pipe and tighten it with the clip.



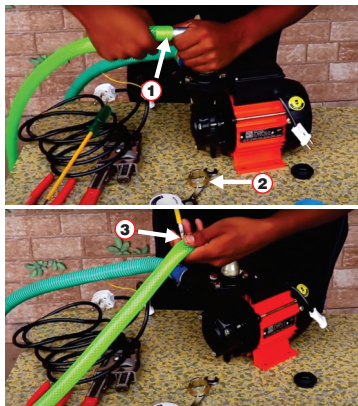
Delivery Flange, Gasket And Bend Connection

1. Remove the nuts from the pump outlet and take out delivery flange and Rubber Gasket.
2. Cut the centre portion of the gasket with the help of scissor as shown in picture.
3. Fit the cut rubber gasket and delivery flange on the pump and tighten properly.
4. Take the GI bend and wrap teflon tape on the threaded portion to avoid any leakages through threads.
5. Connect the GI bend with the delivery flange.



Delivery Pipe Connection

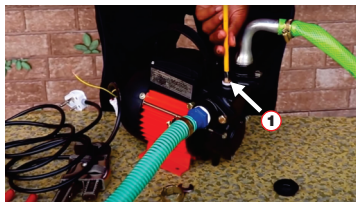
1. Fix the delivery pipe on the 90° GI bend of the pump outlet.
2. Use the pipe clip for tightening purpose.
3. Clip to the tightened with the help of screw driver as shown in picture.



Priming of Pump

First time the pump is required to be Primed, which means water is to be filled in the delivery casing After fitting of suction and delivery pipes.

1. Remove the brass nut with the help of screw driver from the delivery casing as shown.
2. Fill the pump casing with sufficient water and close the brass nut.



Electric Connection

- Connect the pin to the lead wire of the pump for electric connection.



Testing of Pump

- Make suitable connection with electric point and ensure that all the connection are properly insulated to prevent electric shock.
- Switch on the power supply and pump will start delivering water.
- For better service and longer life, it is that the pump should be fixed on solid and plain surface to avoid vibration and unwanted noise.



This exploded view diagram illustrates the assembly of a 125cc 2-stroke engine. The components are organized into three main sections, separated by dashed lines, representing the cylinder head assembly, the crankcase assembly, and the crankshaft assembly.

Cylinder Head Assembly (Top): This section includes the cylinder head (1007), cylinder (1000), and various gaskets and seals (1110, 1111, 1009, 2088, 2092, 1195, 1107). The cylinder head is shown with the piston pin (110) and piston (100) attached.

Crankcase Assembly (Middle): This section shows the crankcase (101) with the crankshaft (102) and connecting rod (103) assembly. The crankcase is shown with the piston pin (110) and piston (100) attached. The crankcase is also shown with the crankshaft (102) and connecting rod (103) assembly.

Crankshaft Assembly (Bottom): This section includes the crankshaft (102) and connecting rod (103) assembly. The crankshaft is shown with the connecting rod (103) and piston pin (110) attached. The crankshaft is also shown with the connecting rod (103) and piston pin (110) attached.

Other Components: The diagram also shows various other components, including the oil pump (1001), oil pump drive gear (1002), oil pump housing (1003), oil pump cover (1004), oil pump gasket (1005), oil pump seal (1006), oil pump pin (1008), oil pump nut (1009), oil pump washer (1010), oil pump pin (1011), oil pump nut (1012), oil pump washer (1013), oil pump pin (1014), oil pump nut (1015), oil pump washer (1016), oil pump pin (1017), oil pump nut (1018), oil pump washer (1019), oil pump pin (1020), oil pump nut (1021), oil pump washer (1022), oil pump pin (1023), oil pump nut (1024), oil pump washer (1025), oil pump pin (1026), oil pump nut (1027), oil pump washer (1028), oil pump pin (1029), oil pump nut (1030), oil pump washer (1031), oil pump pin (1032), oil pump nut (1033), oil pump washer (1034), oil pump pin (1035), oil pump nut (1036), oil pump washer (1037), oil pump pin (1038), oil pump nut (1039), oil pump washer (1040), oil pump pin (1041), oil pump nut (1042), oil pump 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oil pump washer (1406), oil pump pin (1407), oil pump nut (1408), oil pump washer (1409), oil pump pin (1410), oil pump nut (1411), oil pump washer (1

Parts List

Part No.	Part Description
101	Delivery Casing
152	Impeller
164	Rotor (motor)
189	Rotor Shaft
230	Mechanical Seal
296.1	Mounting Casing
341	Tie Rod
490	Delivery Flange
490.1	Suction Flange
513	Packing for Suction Flange
513.1	Packing for Delivery Flange
580.1	Hex head Bolt for Delivery Flange
590	Hex head Bolt for Suction Flange
601	Priming Plug
909	Cover N.D.E./ End Shield / Bottom End Shield
912	Terminal Board
999	Terminal Box
1000	Fan
1001	Fan Cover
1105	Terminal Box Cover
1106	Ball Bearing D.E.
1107	Ball Bearing N.D.E.
1110	Self-Tapping Screw for Terminal Box and Terminal Box Plate
1120	Star Head Screw for Terminal Box and Motor Body
1195	Wave Washer
1232	Hex Bolt for Mounting Casing & Delivery Casing
2093	Hex Nut For Tie Rod
3049	Stator Fitted Motor Body
4123	Capacitor
4161	Grommet
250	NRV Assembly
1119	Screw Cheese Head for Fan Cover
1111	Cotter Pin
2068	Spring Washer for Cover NDE
236	Water Deflector
2071	O Ring for Mounting Casing
330	Hex Nut for Impeller Locking

Trouble Shooting

	Problem / Causes	What to do
a	Motor Fails to Start	
1.	No power supply	Check incoming connections.
2.	Capacitor failed	Get it replaced.
3.	Impeller stuck due to keeping idle for longer time.	Rotates the shaft with help of Screwdriver
b	Pump does not deliver water / insufficient discharge	
1.	Pump not primed properly	Reprime the pump
2.	Suction lift too high	Place pump closer to water level.
3.	Too many bends in suction branch.	Reduce number of bends.
4.	Water level gone down below foot valve / suction pipe end.	Submerge the foot valve / pipe end in water.
5.	Piping is not airtight in Suction branch.	Apply proper sealing at all joints.
6.	Air trapping in suction branch.	Horizontal length of suction pipe should be straight
c	Motors starts with a humming noise, does not rotate and then trips	
1.	Pump Jammed	Switch off the supply and rotate the shaft with the help of screwdriver.
d	Pump set trips after discharged for a while	
1.	Abnormal supply voltage conditions than that specified	Switch off the supply and check supply Voltage.

Warranty Conditions

- The warranty does not hold good if the supply voltage is not in the prescribed range and has resulted in damage to all electrical components including burning of electrical winding & capacitors.
- The warranty does not hold good for the defects caused by dry running, wrong relay setting & failure of any electrical equipment & accessories.
- This warranty does not hold good if the pump is operated at load over & above its specified range of operation.
- This warranty will not hold good if the pump is not used exclusively for the purpose of pumping clear, cold fresh water & for damage caused due to slit, excessive sand or any other foreign particles in water.
- This warranty shall not cover any costs or charges including cost of removal of pump, installation, Transportation etc. that may be occasioned by a claim under this warranty.
- This warranty does not hold good if the serial number is deleted, defaced or altered.

Registered Office & Global Headquarters :

"Yamuna", Survey No. 98/(3 to 7), Plot No. 3, Baner, Pune - 411045, Maharashtra, India.

Tel.: +91 (20) 2721 4444 Fax: +91 (20) 67211060

Email: marketing@kbl.co.in Website: www.kirloskarpumps.com

CIN No.: L29113PN1920PLC000670

Works :

S. F. No. 324/1, Moperipalayam Road, Thattampudur,
Kaniyur Village, Coimbatore, Tamil Nadu - 641659

Other Product range manufactured by Kirloskar Brothers Limited.

Pump Series	Construction Feature	Drive Unit	Power Rating
KDS+/++	Monobloc	Electric Motor 1 Phase	0.5 HP TO 5 HP
KDS+/++/KDI/GMC	Monobloc	Electric Motor 3 Phase	0.5 HP TO 30 HP
KDT+	Two stage monobloc	Electric Motor 3 Phase	5 HP TO 20 HP
KS+	Slow speed monobloc	Electric Motor 3 Phase	3 HP TO 10 HP
SRF	High head monobloc	Electric Motor 3 Phase	25 HP & 30 HP
KSMB	Monobloc	Electric Motor 3 Phase	1 HP TO 10 HP
KJ	Monobloc	Electric Motor 1 Phase	0.5 HP TO 1.5 HP
KOS, JOS & JVS	Openwell submersible	Electric Motor 1 and 3 Phase	0.5 HP TO 30 HP
Submersible	Borewell Submersible	Electric Sub. Motor 1 and 3 Phase	0.5 HP TO 75 HP
KVM	Vertical Multi - stage	Electric Sub. Motor 1 and 3 Phase	1.5 HP TO 5.0 HP
SP	Monobloc / Coupled	Electric Motor	1 HP TO 25 HP
KSIL/KCIL	Vertical Multi-Stage Inline pump	Electric Motor 3 Phase	0.5 HP TO 60 HP
KV/DV	Vacuum Pump	Electric Motor 1 and 3 Phase	1 HP TO 10 HP
CW/SW/BW/HL	ETERNA	Electric Motor 3 Phase	0.4 HP TO 10 HP
MINI	Monobloc	Electric Motor 1 and 3 Phase	0.25 HP TO 1.5 HP
NW/KE/KH/KHDT/SR	Coupled	Engine / Motor	
Alternator			2 KVA — 50 KVA



Enriching Lives



Steps for E-Warranty Registration for Newly Purchased Pumps



THROUGH KBL'S OFFICIAL/COMPANY WEBSITE

- ✔ Please log on to the web site www.kirloskarpumps.com
- ✔ Scroll down and go to the option of E-Warranty Registration
- ✔ Enter the pump serial number and other necessary details as requested
- ✔ Register for E-Warranty



USING WHATSAPP NUMBER

- ✔ For your newly purchased pumps, please keep the pump invoice ready with you
 - ✔ Please message on KBL's whatsapp number 9922710710 & provide requested details for registration of e warranty
- You can also email us necessary details for registration of E-Warranty on : kblcare@kbl.co.in



USING KBLONE4ALL APP

- ✔ Please download **KBLOne4All App** from Google Play Store and iOS App Store
- ✔ Please select user category and login with the help of mobile number by filling up necessary details as requested
- ✔ System has 2 options regarding capturing of pump serial number either through QR Code scanning which is already available on pump or through manual entry of pump serial number
- ✔ Register for E-Warranty

Note: Registration of the E-Warranty of your newly purchased pump is mandatory for getting the services & required support from our company without any difficulties.

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नए खरीदे पंप्स की ई-वारंटी पंजीकरण के चरण



कंपनी की वेबसाइट के माध्यम से

- ✓ कृपया www.kirloskarpumps.com लॉगऑन करें
- ✓ नीचे स्कॉल करें और ई वारंटी पंजीकरण विकल्प पर जाएं
- ✓ अनुरोध के अनुसार पंप क्रमांक और अन्य आवश्यक विवरण दर्ज करें
- ✓ ई वारंटी के लिए पंजीकरण करें



Whatsapp नंबर के माध्यम से

- ✓ कृपया आपके नये खरीदे पंप का इन्वाइस / बिल अपने पास रखें
- ✓ कृपया KBL के **whatsapp** नंबर **9922710710** पर मैसेज करें और पंजीकरण के लिए अनुरोधित विवरण दर्ज करें
- ✓ ई वारंटी पंजीकरण के लिए **kblcare@kbl.com** पर आवश्यक विवरण ई-मेल कर सकते हैं



KBLOne4All App के माध्यम से

- ✓ कृपया **Google Play Store** और **ios App Store** से **KBLOne4All App** डाउनलोड करें
- ✓ कृपया उपयोगकर्ता श्रेणी का चयन करें और मोबाइल नंबर की सहायता से अनुरोधित आवश्यक विवरण पूर्ति कर लॉग इन करें
- ✓ सिस्टम में पंप सीरियल नंबर को अधिष्ठित करने के लिए **2** विकल्प हैं। या तो **QR** कोड जो पंप पर पहले से ही उपलब्ध है उसे स्कैन करें या पंप की लिखित एंटी करें
- ✓ ई वारंटी के लिए पंजीकरण करें

नोट : बिना किसी परेशानी के हमारी कंपनी की सेवायें प्राप्त करने के लिए आपके नवीन खरीदे पंप की ई-वारंटी का पंजीकरण अनिवार्य है

किलोस्कर ब्रदर्स लिमिटेड

स्थापित १८८८

किलोस्कर ग्रुप कंपनी



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Field or home, choose Kirloskar Pumps

Monobloc and Borewell Submersible Pumps for
Agricultural and Domestic Applications



LONG LASTING • SUPERIOR PERFORMANCE • EASY OPERABILITY • ENERGY EFFICIENT

STRENGTHENED BY
99.9%
PURE EC GRADE
COPPER
WINDING WIRES

BUY ELECTRIC PUMPS
WITH PURE COPPER
WINDING WIRES ONLY.
ENQUIRE BEFORE BUYING.

ORIGINAL
KIRLOSKAR
PUMP



KOSI
Single Phase
Openwell Submersible Pump



KDS
Single Phase
Monobloc Pump



JOS
Three Phase
Openwell Submersible Pump



KU4 NEO KS6
10 CM & 15 CM Borewell
Submersible Pumps

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LOGOS ON PACKAGING

KIRLOSKAR BROTHERS LIMITED

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Warranty Certificate

This product is warranted against manufacturing defects and workmanship under normal use and service for the period of 12 months from the date of invoice (or) 24 months from the date of manufacturing, whichever is earlier.

Company to repair or replace the product at its discretion or any part thereof, for which is originally defective in material or workmanship, provided the product or its parts are returned to the point of purchase (To the dealer from where the product/ parts were purchased) on freight paid basis with inspection report from the KBL Authorized Service Centre (Field Complaint Report) within warranty period. This warranty does not cover any consequential damage of any nature.

This warranty excludes every condition, whether statutory or otherwise, whatsoever is not expressly set out here.

A large, empty rectangular box with a thin black border, intended for a stamp or signature.

SPECIAL INSTRUCTIONS: "Customers are advised to go through the product manual carefully for proper installation, use and servicing of the product and genuine spare parts. It is also advisable to go through the company's published literature, catalogue or other official publication. Any deviation, if made by the customer will void the warranty obligations. Repair by KBL trained mechanics will ensure trouble free performance

This card must be produced at the time of claiming the warranty along with purchase documents. All disputes subject to Pune jurisdiction.

Dealer's Stamp and Signature _____

Date of Purchase: _____ **Bill / Cash Memo No.:** _____

Ultra

**Ultra Capability,
Ultra Quality**

100
1920
2020

KIRLOSKAR BROTHERS LTD.



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WIDE VOLTAGE RANGE
180 - 260 V



Chhotu Star Ultra



Jalraaj Ultra



Popular Ultra



Jalraaj - 1 Ultra



Star Ultra



Wonder III Ultra

APPLICATIONS



Water supply for bungalows,
apartments & hotels



Gardening and
small farm irrigation



Farmhouse fountains,
sumps and water tanks

**KIRLOSKAR
BROTHERS LIMITED**

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www.kirloskarpumps.com

marketing@kbl.co.in

Contact Toll Free: 1800 103 4443

FEATURES

Shielded Ball Bearing

The low noise pumps are fitted with shielded ball bearing; so, no external lubrication is required throughout the life cycle.

High Efficiency and Energy Saving Design

Innovative design manufactured at state of the art, plant ensures optimum efficiency and lower energy consumption resulting in significant cost savings.

Dynamically Balanced Rotating Parts

Minimum vibrations protect components from damage during operation, resulting in consistent performance as concentricity is maintained.

Easy Maintainable Designs

Easy maintainable design and better interchangeability of components ensures that the pump can be serviced even at remote locations by semi-skilled technicians.

TOP - Thermal Overload Protector

The pumpset features a thermal overload protector that protects the motor from overloading, shielding the motor and associated circuit from the effects of fault current.

Lightweight and Compact Design

It allows user to carry the pump anywhere with ease, adding to its portability and convenience of use.

High Suction Lift

The pump has suction lift capacity of up to 7.5 metres with high head, facilitating pumping of water at high volumes for a variety of applications.

High Quality Aluminium Motor Body

Special grade aluminium motor body ensures high resistance to corrosion, better heat dissipation and lowers the pump's overall weight for great portability.

Enhanced Safety Features

All electrical parts of the pump are covered, which makes it safer to use.

Wide Voltage Design

The motor is designed to withstand wide voltage fluctuations ranging from 180 - 260 volts, thus reducing the possibility of motor burning in case of low voltage.

TECHNICAL SPECIFICATIONS

Head	:	Upto 40 meters
Capacity	:	Upto 3350 LPH
Power Rating	:	0.37 to 0.75 kW / 0.5 to 1.0 HP
Voltage Range	:	180 to 260 Volts (Single Phase)

PERFORMANCE CHART

PERFORMANCE CHART FOR 'MINI-ULTRA' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, SINGLE PHASE A.C. POWER SUPPLY																				
S. No.	Pump Model	Power Rating		Pipe Size (mm)		Full Load Current (Amps)	Rated Voltage (Volts)	TOTAL HEAD METERS												
		kW	HP	SUC.	DEL.			6	10	14	18	22	26	28	30	32	33	34	38	40
								DISCHARGE IN LITRES PER HOUR												
1	Jalraaj Ultra	0.37	0.5	25	25	2	220	1800	1440	1150	935	720	430	-	-	-	-	-	-	
2	Wonder III Ultra	0.37	0.5	25	25	3	220	2050	1655	1400	1150	865	500	360	-	-	-	-	-	
3	Star Ultra	0.37	0.5	25	25	2.6	220	2735	2450	2160	1800	1370	935	720	-	-	-	-	-	
4	Chhotu Star Ultra	0.75	1	25	25	3.6	220	2880	2520	2200	1870	1585	1150	940	720	500	-	-	-	
5	Jalraaj 1 Ultra	0.75	1	25	25	4	220	3300	2990	2660	2300	1980	1670	1365	1300	-	-	-	-	
6	Popular Ultra	0.75	1	25	25	4.5	220	3350	3025	2650	2300	2025	1655	1510	1400	1260	1220	1150	865	
																			755	

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CPBS

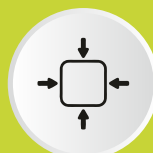
PRESSURE BOOSTING SYSTEM



Easy
Maintainable
Design



TOP - Thermal
Overload
Protector



Compact,
Reliable and
Silent



Reliable and
Durable
Components



STRENGTHENED BY
99.9%
PURE EC GRADE
COPPER
WINDING WIRES



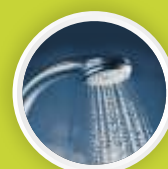
Consistent Pressure
at Multi Outlets



Kitchenware
Washing



Pressurised
Washing of Vehicles



Multi Jet
Shower Panels

BUY ELECTRIC PUMPS WITH PURE COPPER WINDING WIRES ONLY. ENQUIRE BEFORE BUYING.

ALWAYS BUY PUMPS WITH

and



LOGOS ON PACKAGING

CPBS

PRESSURE BOOSTING SYSTEM

TECHNICAL SPECIFICATION

Head Range	-	Up to 52 Metres
Discharge Range	-	Up to 140 LPM
Power Rating	-	0.4 to 1.1 kW (0.6 to 1.5 HP)
Pressure Range	-	Up to 4.4 kg/cm ²
Voltage Range	-	180 to 240 Volts (Single Phase)
Insulation	-	B Class
Protection	-	IP 44
Tank Size	-	24 Litres

MATERIAL OF CONSTRUCTION

Impeller	-	Stainless Steel
Diffuser	-	Stainless Steel
Motor Body	-	Aluminum Die Cast
Pump Shaft	-	Stainless Steel
Pump Stage Casing	-	Stainless Steel
Suction & Delivery Casing	-	Cast Iron

APPLICATIONS

- Consistent Pressure at Multi Outlets
- Multi Jet Shower Panels
- Washing Machine, Hot Water Geyser, Gas Geyser
- Pressurised Washing of Vehicles
- Kitchenware Washing

FEATURES

Compact, Reliable and Silent

Dynamically balanced rotating parts, superior quality bearings and SS fabricated impellers with compact design ensures reliable and silent operations.

TOP - Thermal Overload Protector

The pump set features a Thermal Overload Protector that protects the motor from overloading, shielding of the motor and associated circuit from the effects of fault current

Diaphragm Type Pressure Tank

Diaphragm type pressure tank made from high grade engineering material.

Reliable and Durable Components

Reliable and durable peripheral parts such as Pressure Switch, Standardized Size of 5 Way Connector, and Italian make NRV and SS hose pipe.

Easy Maintainable Designs

Easy maintainable design and better interchangeability of components so that pump can be serviced even at remote locations by semi-skilled technicians.

PERFORMANCE CHART FOR 'CPBS' SERIES, PRESSURE BOOSTING SYSTEM, AT RATED VOLTAGE, 50 Hz FREQUENCY, SINGLE PHASE A.C. POWER SUPPLY

S. No.	Pump Model Horizontal/ Vertical Models	Power Rating		Pipe Size (mm)		Rated Current (Amps)	Rated Voltage (Volts)	Pressure Range (kg/cm2)	No. of Outlets/ Taps	No. of Stages	DISCHARGE IN LPM						
		kW	HP	SUC.	DEL.						20	40	60	80	100	120	140
											TOTAL HEAD IN METERS						
1	CPBS - 52424H / V	0.4	0.6	25	25	5.5	220	1.4 - 2.4	5	2	25	21	17	6	-	-	-
2	CPBS - 62824H / V	0.6	0.8	25	25	6.5	220	1.8 - 2.8	6	3	35	30	26	16	6	-	-
3	CPBS - 73624H / V	0.75	1.0	25	25	7.5	220	2.2 - 3.6	7	4	41	37	33	29	24	18	6
4	CPBS - 84424H / V	1.1	1.5	25	25	8.5	220	2.4 - 4.4	8	5	52	47	43	37	30	24	12

Note:

- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

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We are now on WhatsApp to assist you better

9922710710

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Registered Office & Global Headquarters: "Yamuna", Survey No. 98/(3 to7), Plot No. 3, Baner, Pune - 411 045, Maharashtra, India

Email: marketing@kbl.co.in, **Website:** www.kirloskarpumps.com **CIN No.:** L29113PN1920PLC000670